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Mr GEORGE L. CHIENE, Mr W. J. STUART, Mr J. W. STRUTHERS, Mr HENRY WADR, Mr D. P. D. WILKIE, Mr J. FRASER, Mr J. M. GRAHAM, Mr A. PIRIE WATSON, Mr F. E. JARDINE.—Lecturers in Clinical Surgery, Edinburgh University

GYNECOLOGICAL DEPARTMENT

Consulting Gynecologist

Professor Sir HALLIDAY CROOM

Gynecologists—Dr A. H. F. BARBOUR, Mr N. T. BREWIS.—Lecturers in Clinical Gynecology, Edinburgh University

Assistant Gynecologists—Dr J. HAIG FERGUSON, Dr WILLIAM FORDYCE.—Lecturers in Clinical Gynecology, Edinburgh University

DEPARTMENT FOR DISEASES OF THE SKIN

Physicians—Dr NORMAN WALKER, Dr FRED GARDINER.—Lecturers in Dermatology

Assistant Physician—Dr R. CRANSTON LOW

[Continued on next page]

ROYAL INFIRMARY, EDINBURGH—Continued

OPHTHALMIC DEPARTMENT

Consulting Surgeons—Sir GEORGE A. BERRY, Dr GEORGE MACRAY
Surgeons—Dr W. G. SYM, Dr J. V. PATERSON.—Lecturers in Ophthalmology
Assistant Surgeons—Dr A. H. H. SINCLAIR, Dr H. M. TRAQUAIR

EAR AND THROAT DEPARTMENT

Consulting Surgeons—Dr P. M'BRIDE, Dr R. M'KENZIE JOHNSTON
Surgeons—Dr A. LOGAN TURNER, Dr J. MALCOLM FARQUHARSON.—Lecturers in Ear
and Throat Diseases
Assistant Surgeons—Dr JOHN S. FRASER, Dr JOHN D. LITHGOW

DENTAL DEPARTMENT

Consulting Surgeon—Mr WILLIAM GUY | Surgeon—Mr J. H. GIBBS

ELECTRICAL DEPARTMENT

Extra Medical Electrician (for Radium Cases)—Dr DAWSON TURNER
Medical Electricians—Dr W. HOPE FOWLER, Dr ARCHIBALD M'KENDRICK

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Pathologist—Professor LORRAIN SMITH
Clinical Pathologist—Dr W. R. LOGAN
Assistant Pathologists—Dr JAMES MILLER, Dr MURRAY LYON

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Prospectus and further particulars from the Principal, Miss ELIZABETH STEVENSON, B.A., St George's School for Girls, Windmill Brae, Garscube Terrace, Edinburgh.

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Many of the Classes are recognised by the University of Edinburgh as qualifying for the Degree of B.Sc. in Pure Science and Engineering, so that a student can qualify for these Degrees by taking the necessary additional Courses at the University and passing the University Examinations.

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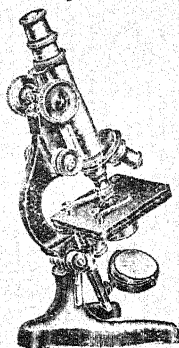
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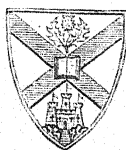
PROSPECTUS ON APPLICATION

EDINBURGH
UNIVERSITY CALENDAR

1919-1920

EDINBURGH
University Calendar

1919-1920



EDINBURGH:
PUBLISHED FOR THE UNIVERSITY BY
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MCMXIX

EDINBURGH UNIVERSITY CALENDAR

The **Edinburgh University Calendar** for the Academic Year (1st October to 1st October), published annually in August by the authority of the Senatus Academicus, contains Synopses of the Courses of Lectures delivered by the Professors and Lecturers; Regulations and Subjects of Examination for Degrees in Arts, Science, Divinity, Law, Medicine, and Music; Regulations for the Degree of Bachelor of Commerce; Regulations for the Degree and Diploma in Education; Regulations for Diplomas in Tropical Medicine and Hygiene, and in Psychiatry; Regulations for Diploma and Certificate in Forestry; Regulations for Diplomas in Geography and in Actuarial Mathematics; the Annual Graduation Lists; Bursaries, Prizes, Scholarships, Fellowships, and other Endowments of the University; Class Prize and Honours Lists; Benefactions to the University; Statement of the Annual Income and Expenditure of the University; Abstract of the Proceedings of the University Court, List of the University Societies, etc., etc.

The **Calendar** is published by JAMES THIN, 55 SOUTH BRIDGE, EDINBURGH, and may be had through any Bookseller. (Price 5s.; by Inland Post, 5s. 6d.; by Foreign or Colonial Post, 5s. 8d.)

Copy of the Register of the Members of the GENERAL COUNCIL is sold by the same Publisher. (Price 4s.; by Post, 4s. 9d.)

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The PRELIMINARY EXAMINATION PAPERS, and the DEGREE EXAMINATION PAPERS in Divinity, Law, and Music for the preceding year are published annually in May, and the DEGREE PAPERS in Arts, Science, and Medicine, and the ARTS BURSARIES PAPERS in July, by Mr THIN, as follows:—

1. Arts and Science Preliminary, price 1s. By Post, 1s. 3d.
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8. Degrees in Medicine, price 6d. By Post, 8d.
9. Degree of Mus.B., price 3d. By Post, 4d.

UNIVERSITY OF EDINBURGH,

July 1919.

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THE CALENDAR

1919—SEPTEMBER, 30 Days.

During the month, the **Senatus Offices** are open from 10 to 1—closed on Saturdays; and the **Library and Reading-Rooms** in the Old Buildings are open from 10 to 3—Saturdays 10 to 1.

1	M	
2	Tu	
3	W	
4	Th	
5	F	
6	Sa	Entries close for Preliminary Examinations.
7	S	
8	M	
9	Tu	
10	W	
11	Th	
12	F	Preliminary Examinations begin.
13	Sa	Entries close for Arts Scholarships.
14	S	
15	M	EDINBURGH HOLIDAY.
16	Tu	
17	W	Entries close for First Professional Examination.
18	Th	Entries close for Second Professional Examination.
19	F	Entries close for Third Professional Examination.
20	Sa	
21	S	
22	M	
23	Tu	Entries close for M.A. and Bach. Educ. Examinations.
24	W	Entries close for B.Sc. Examinations.
25	Th	Entries close for Law Examinations.
26	F	
27	Sa	
28	S	
29	M	M.A. Examinations begin.
30	Tu	Entries close for B.D.

1919—OCTOBER, 31 Days.

Senatus Offices open from 10 to 4—Saturdays 10 to 1.
Library—see page 62, and see below.

1	W	ANNUS ACADEMICUS begins. Last day for lodging Theses for M.D. and Ch.M. Inspection of Library . All books to be returned before this date. Library closed for lending till 8th October. First Professional and Third Professional Examinations. B.Sc. Examinations begin.
2	Th	<i>Meeting of Senatus Academicus at 4 P.M. :—</i> Standing Committees and Boards of Studies to be appointed. First Professional and Second Professional Examinations. Law Examinations begin.
3	F	
4	Sa	
5	S	
6	M	
7	Tu	
8	W	Examinations for B.D. and Bach. Educ. begin.
9	Th	
10	F	
11	Sa	
12	S	
13	M	Oral Examinations in Law.
14	Tu	CLASSES IN FACULTIES OF ARTS, SCIENCE, MEDICINE, AND MUSIC OPEN. Library open from 10 to 4. CLASSES IN FACULTIES OF DIVINITY AND LAW OPEN.
15	W	COURT OF SESSION SITS.
16	Th	
17	F	
18	Sa	
19	S	
20	M	<i>Meeting of University Court at 4 P.M.</i>
21	Tu	
22	W	
23	Th	
24	F	
25	Sa	GRADUATION CEREMONIAL, at 10 a.m. <i>A special meeting of Senatus Academicus may be held at 9.45 A.M.</i>
26	S	
27	M	
28	Tu	
29	W	
30	Th	
31	F	<i>Meeting of General Council at 3.30 o'clock.</i>

1919—NOVEMBER, 30 Days

1	Sa	
2	S	
3	M	
4	Tu	
5	W	
6	Th	<i>Meeting of Senatus Academicus at 4 P.M. :—</i> Senatus Budget to be submitted.
7	F	Entries close for Final Professional Examination and for M.D. Clinical Examination.
8	Sa	
9	S	
10	M	
11	Tu	MARTINMAS.
12	W	
13	Th	Certificates for Bursaries, etc., granted by Deans.
14	F	
15	Sa	Fellowships, Scholarships, Bursaries, paid by Factor.
16	S	
17	M	<i>Meeting of University Court at 4 P.M.</i>
18	Tu	Final Professional Examination.
19	W	Final Professional Examination.
20	Th	
21	F	Clinical Examination for M.D.
22	Sa	Clinical Examination for M.D.
23	S	
24	M	
25	Tu	
26	W	
27	Th	
28	F	Final Professional Clinical Examinations begin.
29	Sa	
30	S	

1919—DECEMBER, 31 Days.

1	M	QUEEN ALEXANDRA born, 1844. Entries close for Science Examinations.
2	Tu	Entries close for M.A. (Geology, etc.) Examination.
3	W	
4	Th	<i>Meeting of Senatus Academicus at 4 P.M. :—</i> (1) Election of Deans of Faculties. (2) Election of Managers for Royal Infirmary. (3) Report to Widows' Fund. (4) Arrangements for Academic Year 1920-1921. (5) Report of the Moray Endowment Committee.
5	F	
6	Sa	
7	S	
8	M	Final Science Exams. begin. M.A. Examinations begin.
9	Tu	
10	W	
11	Th	Examinations in Forensic Medicine and Public Health.
12	F	
13	Sa	
14	S	
15	M	<i>Meeting of University Court at 4 P.M.</i>
16	Tu	
17	W	
18	Th	
19	F	[at 10 a.m.] GRADUATION CEREMONIAL IN MEDICINE, &c. CLASSES IN ALL FACULTIES EXCEPT LAW CLOSE. Senatus Offices open from 10 to 1, till 12th January— closed on Christmas, New Year's Day, and Saturdays. Library, including Reading-Rooms at Old Buildings, open from 10 to 1, till 12th January—closed on Saturdays. Reading-Room, New Buildings, closed for same period. CLASSES IN FACULTY OF LAW CLOSE.
20	Sa	
21	S	
22	M	
23	Tu	
24	W	
25	Th	CHRISTMAS DAY.
26	F	
27	Sa	
28	S	
29	M	
30	Tu	
31	W	

1920—JANUARY, 31 Days.

1	Th
2	F
3	Sa
4	S
5	M
6	Tu
7	W
8	Th
9	F
10	Sa
11	S
12	M
13	Tu
14	W
15	Th
16	F
17	Sa
18	S
19	M
20	Tu
21	W
22	Th
23	F
24	Sa
25	S
26	M
27	Tu
28	W
29	Th
30	F
31	Sa

**CLASSES IN FACULTIES OF LAW AND MEDICINE
MEET AFTER THE CHRISTMAS VACATION.**

Meeting of Senatus Academicus at 4 P.M. :—
Reports of Boards of Studies.
Entries close for Economic Science (Agric.) Examination.

Meeting of University Court at 4 P.M.
**CLASSES IN THE FACULTIES OF ARTS, SCIENCE,
DIVINITY, AND MUSIC MEET AFTER THE
CHRISTMAS VACATION.**
Economic Science (Agric.) Examination.

*Meeting of University Court for hearing Registration Appeals (if
any) at 4 P.M.*

1920—FEBRUARY, 29 Days.

1	S
2	M
3	Tu
4	W
5	Th
6	F
7	Sa
8	S
9	M
10	Tu
11	W
12	Th
13	F
14	Sa
15	S
16	M
17	Tu
18	W
19	Th
20	F
21	Sa
22	S
23	M
24	Tu
25	W
26	Th
27	F
28	Sa
29	S

CANDLEMAS.*Meeting of Senatus Academicus at 4 P.M. :—*

- (1) Resolution to Elect Member of General Assembly.
- (2) Annual Report on University Library.

HOLIDAY IN FACULTY OF ARTS.*Meeting of University Court at 4 P.M.*

Entries close for M.A. Examinations.

1920—MARCH, 31 Days.

1	M	Entries close for Preliminary Examinations. Entries close for Scholarships in Arts and Science. Entries close for Law Examinations. Entries close for Music Examinations.
2	Tu	Entries close for First Professional Examination.
3	W	Entries close for Science Examinations.
4	Th	Entries close for Second Professional Examination. <i>Meeting of Senatus Academicus at 4 P.M. :—</i> (1) Report of D.D. Committee to be presented. (2) Report of LL.D. Committee to be presented. (3) Appoint Member of General Assembly. (4) Appoint Representatives on Univ. Field Committee.
5	F	
6	Sa	Entries close for Third Professional Examination.
7	S	
8	M	Applications for Grants from Dickson Travelling Fund to be lodged.
9	Tu	Entries close for B.D.
10	W	Science Examinations begin.
11	Th	
12	F	CLASSES IN FACULTY OF MEDICINE CLOSE. M.A. Honours Examinations begin. Preliminary Examinations begin. First and Second Professional Examinations.
13	Sa	
14	S	
15	M	First and Third Professional Examinations. Music Examinations begin. <i>Meeting of University Court at 4 P.M.</i> M.A. (Ordinary), and Law Examinations begin.
16	Tu	Examinations for B.D. begin.
17	W	
18	Th	<i>Meeting of Senatus Academicus at 4 P.M. (unless another date fixed) :—</i> (1) Report of D.D. Committee to be moved. (2) Report of LL.D. Committee to be moved. (3) Grants made from William Dickson Travelling Fund.

1920—MARCH—continued

19	F	CLASSES IN FACULTIES OF ARTS, SCIENCE, DIVINITY, AND MUSIC CLOSE.
20	Sa	CLASSES IN FACULTY OF LAW CLOSE.
21	S	
22	M	Oral Examinations in Law.
23	Tu	
24	W	
25	Th	
26	F	GRADUATION CEREMONIAL, at 10 a.m. Senatus Offices open from 10 to 1, till 15th April—closed on Saturdays. Library open from 10 to 3, and Reading-Room, New Buildings, open from 10 to 1, till 19th April—closed on Saturdays.
27	Sa	
28	S	
29	M	
30	Tu	
31	W	Last day for lodging Theses for M.D. and Ch.M.

1920—APRIL, 30 Days.

1	Th
2	F
3	Sa
4	S
5	M
6	Tu
7	W
8	Th
9	F
10	Sa
11	S
12	M
13	Tu
14	W
15	Th
16	F
17	Sa
18	S
19	M
20	Tu
21	W
22	Th
23	F
24	Sa
25	S
26	M
27	Tu
28	W
29	Th
30	F

GOOD FRIDAY.**EASTER SUNDAY.****EDINBURGH HOLIDAY.***Meeting of University Court at 4 P.M.***CLASSES IN FACULTIES OF ARTS, SCIENCE,
DIVINITY, AND MEDICINE OPEN.**

1920—MAY, 31 Days.

1	Sa	
2	S	
3	M	
4	Tu	
5	W	<i>Meeting of University General Council at 3.30 P.M.</i>
6	Th	ACCESSION OF KING GEORGE V., 1910. <i>Meeting of Senatus Academicus at 4 P.M. :—</i> Report of Moray Endowment Committee.
7	F	
8	Sa	
9	S	
10	M	
11	Tu	Entries close for Final Professional Examination.
12	W	CLASSES IN FACULTY OF LAW OPEN.
13	Th	
14	F	Entries close for M.D. Clinical Examination.
15	Sa	WHITSUNDAY TERM.
16	S	
17	M	HOLIDAY. <i>Meeting of University Court at 4 P.M.</i>
18	Tu	VICTORIA DAY. GENERAL ASSEMBLY MEETS. HOLIDAY.
19	W	Fellowships, Scholarships, Bursaries paid by Factor.
20	Th	
21	F	Final Professional Examination.
22	Sa	Final Professional Examination.
23	S	
24	M	
25	Tu	
26	W	QUEEN MARY born, 1867.
27	Th	
28	F	
29	Sa	
30	S	
31	M	

1920—JUNE, 30 Days.

1	Tu	Entries close for Scholarships in Arts and Science.
2	W	Entries for M.A. Honours.
3	Th	KING GEORGE V. born, 1865. Entries close for Science Examinations. <i>Meeting of Senatus Academicus at 4 P.M.</i>
4	F	Clinical Examinations for M.D. begin.
5	Sa	Entries close for M.A. (Ordinary) and Bach. Educ. Exams. M.A. Honours Examinations begin.
6	S	
7	M	Science Examinations begin.
8	Tu	
9	W	
10	Th	
11	F	CLASSES IN FACULTY OF DIVINITY CLOSE. Final Professional Clinical Examinations begin. Entries close for Third Prof. Examination.
12	Sa	Entries close for Arts First Year Bursary Examinations.
13	S	
14	M	M.A. Ordinary Examinations begin. <i>Meeting of University Court at 4 P.M.</i>
15	Tu	Bachelor of Education, Examinations begin. Arts Bursary Examinations begin. Entries close for Forensic Medicine and Public Health Exams.
16	W	
17	Th	Entries close for First Professional Examination.
18	F	CLASSES IN FACULTIES OF ARTS AND SCIENCE CLOSE. Entries close for Second Professional Examination.
19	Sa	
20	S	
21	M	
22	Tu	
23	W	PRINCE OF WALES born, 1894.
24	Th	
25	F	
26	Sa	
27	S	
28	M	
29	Tu	
30	W	CLASSES IN FACULTY OF MEDICINE CLOSE.

1920—JULY, 31 Days.

1	Th	<i>Meeting of Senatus Academicus at 4 P.M. (unless another date fixed).</i>
2	F	First and Final Professional Examinations.
3	Sa	First and Second Professional Examinations.
4	S	Second and Third Professional Examinations.
5	M	
6	Tu	KING GEORGE V. married, 1893.
7	W	
8	Th	GRADUATION CEREMONIAL IN MEDICINE, ARTS, ETC., AT 10 a.m.
		COMMEMORATION SERVICE IN ST GILES'S, AT 12 NOON.
		Senatus Offices open from 10 to 1, till 1st October—closed on Saturdays.
		Library open from 10 to 3, till 1st August.
9	F	
10	Sa	
11	S	
12	M	<i>Meeting of University Court at 4 P.M.</i>
13	Tu	
14	W	
15	Th	
16	F	
17	Sa	
18	S	
19	M	
20	Tu	CLASSES IN FACULTY OF LAW CLOSE
21	W	
22	Th	
23	F	
24	Sa	
25	S	
26	M	
27	Tu	
28	W	
29	Th	
30	F	
31	S	

1920—AUGUST, 31 Days.

During the month, the **Senatus Offices** are open from 10 to 1—closed on Saturdays; the **Library** and **Reading-Rooms** in the Old Buildings are open from 10 to 1, till 1st September—closed on Saturdays; and the **Reading-Room** in the New Buildings is closed.

LAMMAS.

1	S
2	M
3	Tu
4	W
5	Th
6	F
7	Sa
8	S
9	M
10	Tu
11	W
12	Th
13	F
14	Sa
15	S
16	M
17	Tu
18	W
19	Th
20	F
21	Sa
22	S
23	M
24	Tu
25	W
26	Th
27	F
28	Sa
29	S
30	M
31	Tu

1920—SEPTEMBER, 30 Days.

During the month, the **Senatus Offices** are open from 10 to 1—closed on Saturdays; the **Library** and **Reading-Rooms** are open from 10 to 3—Saturdays 10 to 1.

1	W	
2	Th	
3	F	
4	Sa	Entries <i>may</i> close for Preliminary Examinations.
5	S	
6	M	
7	Tu	
8	W	
9	Th	
10	F	Preliminary Examinations <i>may</i> begin.
11	Sa	
12	S	
13	M	
14	Tu	
15	W	
16	Th	
17	F	
18	Sa	
19	S	
20	M	EDINBURGH HOLIDAY.
21	Tu	
22	W	
23	Th	
24	F	
25	Sa	
26	S	
27	M	
28	Tu	M.A. Examinations <i>may</i> begin.
29	W	
30	Th	

Calendar for Academic Year 1920-21

OCTOBER 1920

S 3 10 17 24 31
M 4 11 18 25
Tu 5 12 19 26
W 6 13 20 27
Th 7 14 21 28
Fr 1 8 15 22 29
Sa 2 9 16 23 30

NOVEMBER 1920

S 7 14 21 28
M 1 8 15 22 29
Tu 2 9 16 23 30
W 3 10 17 24
Th 4 11 18 25
Fr 5 12 19 26
Sa 6 13 20 27

DECEMBER 1920

S 5 12 19 26
M 6 13 20 27
Tu 7 14 21 28
W 1 8 15 22 29
Th 2 9 16 23 30
Fr 3 10 17 24 31
Sa 4 11 18 25

JANUARY 1921

S 2 9 16 23 30
M 3 10 17 24 31
Tu 4 11 18 25
W 5 12 19 26
Th 6 13 20 27
Fr 7 14 21 28
Sa 1 8 15 22 29

FEBRUARY 1921

S 6 13 20 27
M 7 14 21 28
Tu 1 8 15 22
W 2 9 16 23
Th 3 10 17 24
Fr 4 11 18 25
Sa 5 12 19 26

MARCH 1921

S 6 13 20 27
M 7 14 21 28
Tu 1 8 15 22 29
W 2 9 16 23 30
Th 3 10 17 24 31
Fr 4 11 18 25³
Sa 5 12 19 26

APRIL 1921

S 3 10 17 24
M 4 11 18 25
Tu 5 12 19 26
W 6 13 20 27
Th 7 14 21 28
Fr 1 8 15 22 29
Sa 2 9 16 23 30

MAY 1921

S 1 8 15 22 29
M 2 9 16 23 30
Tu 3 10 17 24 31
W 4 11 18 25
Th 5 12 19 26
Fr 6 13 20 27
Sa 7 14 21 28

JUNE 1921

S 5 12 19 26
M 6 13 20 27
Tu 7 14 21 28
W 1 8 15 22 29
Th 2 9 16 23 30
Fr 3 10 17 24
Sa 4 11 18 25

JULY 1921

S 3 10 17 24 31
M 4 11 18 25
Tu 5 12 19 26
W 6 13 20 27
Th 7 14 21 28
Fr 1 8 15 22 29
Sa 2 9 16 23 30

AUGUST 1921

S 7 14 21 28
M 1 8 15 22 29
Tu 2 9 16 23 30
W 3 10 17 24 31
Th 4 11 18 25
Fr 5 12 19 26
Sa 6 13 20 27

SEPTEMBER 1921

S 4 11 18 25
M 5 12 19 26
Tu 6 13 20 27
W 7 14 21 28
Th 1 8 15 22 29
Fr 2 9 16 23 30
Sa 3 10 17 24

¹ Martinmas Term.

² Holiday in Faculty of Arts.

³ Good Friday.

⁴ Edinburgh Holiday

⁵ Whitsunday Term.

⁶ Victoria Day

ADDRESSES OF THE PRINCIPAL, PROFESSORS, PROFESSORS EMERITI AND RESIGNED, AND UNIVERSITY LECTURERS.

I. PRINCIPAL AND PROFESSORS.

Principal Sir J. Alfred Ewing, 16 Moray Place.

Professor Ashworth, 69 Braid Avenue.

„ Bayley Balfour, Inverleith House.

„ Barger, 48 St Albans Road.

„ Barkla, 34 Priestfield Road.

„ Hudson Beare, 10 Regent Terrace.

„ Boyd, 22 Manor Place.

„ Baldwin Brown, University.

„ Sir J. Halliday Croom, 25 Charlotte Square.

„ Curtis, 27 Hope Terrace.

„ Cushny, Peffermill House, Craigmillar.

„ Darroch, 12 Abbotsford Park.

„ Ewart, Craigiefield, Penicuik.

„ Sir Ludovic J. Grant, Bart., 4 Belgrave Crescent.

„ Grierson, 12 Regent Terrace.

„ Gulland, 11 Chester Street.

„ Hannay, 14 Inverleith Terrace.

„ Jehu, 23 Great King Street.

„ Berriedale Keith, 122 Polwarth Terrace.

„ Kennedy, 33 Fountainhall Road.

„ Laird, 35 Inverleith Row.

„ Harvey Littlejohn, 11 Rutland Street.

„ Sir Richard Lodge, 25 Hope Terrace.

„ Mackinnon, 12 Lygon Road.

„ Mackintosh, 49 Northumberland Street.

„ Mair, 9 Corrennie Drive.

„ Meakins, University.

„ Millar, 10 Abercromby Place.

„ Mounsey, 24 Glencairn Crescent.

„ Nicholson, 3 Belford Park.

„ Paterson, 3 Royal Terrace.

„ Sir Robert W. Philip, 45 Charlotte Square.

- Professor Rankine, 23 Ainslie Place.
 " Richmond, 3 Grange Terrace.
 " Ritchie, 10 Succoth Gardens.
 " Robertson, Tipperlinn House, Tipperlinn Road.
 " Robinson, 35 Coates Gardens.
 " Sampson, Royal Observatory, Blackford Hill.
 " Sarolea, 21 Royal Terrace.
 " Sir Edward Sharpey Schafer, North Berwick.
 " Seth, 20 Braid Avenue.
 " Lorrain Smith, 9 Carlton Terrace.
 " Kemp Smith, 14 Lennox Street.
 " Hunter Stewart, Usher Institute, Warrender Park Road.
 " Sir Harold J. Stiles, 9 Great Stuart Street.
 " Thomson, 39 Drumsheugh Gardens.
 " Tovey, 2 St Margaret's Road.
 " Walker, 5 Wester Coates Road.
 " Wallace, 45 East Claremont Street.
 " Watson, 8 Spence Street.
 " Whittaker, 35 George Square.

II. PROFESSORS EMERITI.

- Alexander Crum Brown, M.D., D.Sc., LL.D. (formerly Professor of Chemistry), 8 Belgrave Crescent, Edinburgh.
 Francis M. Caird (formerly Professor of Clinical Surgery), 13 Charlotte Square.
 John Chiene, C.B., M.D., LL.D. (formerly Professor of Surgery), Aithernie, Davidson's Mains.
 Sir Thomas Richard Fraser, M.D., LL.D., Sc.D. (formerly Professor of Materia Medica), 13 Drumsheugh Gardens, Edinburgh.
 John Kirkpatrick, LL.B., LL.D. (formerly Professor of Constitutional Law and History), 53 Clarendon Villas, Hove, Sussex.
 Frederick Niecks, Mus.D., LL.D. (formerly Professor of Music), 40 George Square, Edinburgh.
 John Patrick, D.D., LL.D. (formerly Professor of Biblical Criticism, etc.), 6 Dick Place, Edinburgh.
 A. S. Pringle Pattison, LL.D. (formerly Professor of Logic and Metaphysics), 16 Churchill.
 William Russell (formerly Professor of Clinical Medicine), 3 Walker Street.
 George Saintsbury, M.A., LL.D., D.Litt. (formerly Professor of Rhetoric and English Literature), 1 Royal Crescent, Bath.
 Malcolm Campbell Taylor, D.D., LL.D. (formerly Professor of Ecclesiastical History), 6 Greenhill Park, Edinburgh.

III. PROFESSORS RESIGNED.

- Sir Archibald Geikie, LL.D. (formerly Professor of Geology), Shepherd's Down, Haslemere, Surrey.
- Henry Goudy, LL.D. (formerly Professor of Civil Law), now Professor of Civil Law, University, Oxford.
- George Walter Prothero, LL.D., Editor of *The Quarterly Review* (formerly Professor of History), 24 Bedford Square, London, W.C.

IV. UNIVERSITY LECTURERS.

- Henry Aitken, K.C., 38 Melville Street.
- H. S. Allen, M.A., D.Sc., University.
- J. W. Ballantyne, M.D., 19 Rothesay Terrace.
- David Balsillie, B.Sc., Chemistry Department.
- A. H. Freeland Barbour, M.A., M.D., LL.D., 4 Charlotte Square.
- Henry Barker, M.A., Cairnmuir Road, Corstorphine.
- J. Beard, D.Sc., 8 Barnton Terrace.
- O. C. Bradley, M.D., D.Sc., 23 Fountainhall Road.
- Edwin Bramwell, M.D., 24 Walker Street.
- H. C. Brennan, M.A., University.
- N. T. Brewis, M.B., 6 Drumsheugh Gardens.
- Raymond W. Brink, M.A., Ph.D., University.
- A. Ninian Bruce, M.D., D.Sc., 8 Ainslie Place.
- Hector Burn-Murdoch, B.A., 18 Castle Street.
- Mary Burns, M.A., Docteur de l'Université de Paris, French Department.
- Rev. Colin Campbell, D.D., Auch-na-Cloich, Rosneath, Dumbartonshire.
- Robert Campbell, M.A., D.Sc., 7 Muirend Avenue, Juniper Green.
- B. Sanin Cano, M.A., University.
- George A. Carse, M.A., D.Sc., 3 Middleby Street.
- George L. Chiene, M.B., 23 Alva Street.
- George G. Chisholm, M.A., B.Sc., 12 Hallhead Road.
- John D. Comrie, M.A., B.Sc., M.D., 25 Manor Place.
- W. G. Craib, M.A., Royal Botanic Garden.
- A. C. Cumming, D.Sc., 3 Gardiner Road, Blackhall, Midlothian.
- Bruce Dickens, M.A., University.
- Leonard Dobbin, Ph.D., 6 Wilton Road.
- J. W. Dowden, M.B., 48 Manor Place.
- James Drever, M.A., B.Sc., D.Phil., Roselea, Gullane.
- D. Oswald Dykes, M.A., LL.B., University.
- John Eason, M.D., 58 Northumberland Street.
- Hans F. Eggeling, M.A., 95 Comiston Drive.
- John Ewing, M.C., M.A., 23 Plewlands Terrace.
- J. Malcolm Farquharson, M.B., 10 Melville Crescent.

- J. Haig Ferguson, M.D., 7 Coates Crescent.
Donald C. Fergusson, M.C., B.Sc., Forestry Department.
T. M. Finlay, M.A., B.Sc., Geology Department.
R. A. Fleming, M.D., 10 Chester Street.
William Fordyce, M.D., 20 Charlotte Square.
J. Stewart Fowler, M.D., 55 Northumberland Street.
John Fraser, M.D., Ch.M., 3 Darnaway Street.
H. C. Gardham, B.Sc., Engineering Department.
Frederick Gardiner, M.D., 60 George Square.
David Gibb, M.A., B.Sc., 15 South Lauder Road.
A. F. Giles, M.A., 71 Merchiston Crescent.
Alexander Goodall, M.D., 14 Walker Street.
William Gordon, B.Sc., A.M.I.Mech.E., 3 Wellington Street.
J. M. Graham, M.B., Ch.M., 5 Castle Terrace.
Ernesto Grillo, D.Litt., LL.D., University.
J. B. Guild, M.A., 7 Maurice Place.
Robert P. Hardie, M.A., 13 Palmerston Road.
David Playfair Heatley, West Mains, West Mains Road.
J. W. B. Hodsdon, M.D., C.M., 6 Chester Street.
Ellice Martin Horsburgh, M.A., D.Sc., A.M.I.C.E., 11 Granville Terrace.
Alexander James, M.D., 9 Randolph Crescent.
E. B. Jamieson, M.D., Anatomy Department.
F. E. Jardine, M.B., 83 Great King Street.
S. A. Kay, D.Sc., Duddingston Lodge, Duddingston.
D. Kennedy-Fraser, M.A., B.Sc., 6 Castle Street.
Claude B. Ker, M.D., City Hospital, Colinton Mains.
Walter Hume Kerr, M.A., B.Sc., Engineering Department.
George Kitchin, M.A., B.Litt., 19 Royal Circus.
Cargill G. Knott, M.A., D.Sc., LL.D., 42 Upper Gray Street.
Alice B. Lennie, M.A., B.Sc., Rose Park, Trinity.
W. J. Lewis, B.L., S.S.C., 3 Glenorchy Terrace.
R. K. S. Lim, M.B., Physiology Department.
D. Murray Lyon, M.B., Pathology Department.
R. Stewart MacDougall, M.A., D.Sc., 9 Dryden Place.
John E. Mackenzie, Ph.D., D.Sc., 2 Ramsay Garden.
Allan M'Neil, S.S.C., 3 Hermitage Drive.
Charles M'Neil, M.A., M.D., 44 Heriot Row.
Lt.-Col. D. G. Marshall, M.B., I.M.S., 1 Douglas Crescent.
Edwin Matthew, M.D., 9 Walker Street.
Alexander Miles, M.D., 20 Walker Street.
James Mill, M.A., 4 Bellevue Terrace.
James Miller, M.D., 5 Hermitage Terrace.
J. R. Milne, D.Sc., 37 George Street.

- J. F. Mountford, M.A., Latin Department.
W. H. Myles, M.A., University.
J. V. Paterson, M.B., C.M., 11 Melville Street.
Robert J. Pealling, M.A., B.Sc., 206 Leith Walk, Leith.
J. Lyford Pike, B.Sc., Rosetta, Liberton.
Harry Rainy, M.D., 16 Great Stuart Street.
J. F. Rees, M.A., 79 Ashley Terrace.
W. T. Ritchie, M.D., Athelstaneford, Colinton, Midlothian.
Edward Robertson, M.A., B.D., D.Litt., Smeaton Grove, Inveresk.
J. D. M. Ross, M.A., B.Sc., 2 Airlie Place.
H. G. Rule, Ph.D., D.Sc., Chemistry Department.
Otto Schlapp, Ph.D., 1 Peel Terrace.
Matthew Shirlaw, Mus.D., 94 Montpelier Park.
William Cameron Sillar, M.D., B.Sc., 2 Lockharton Gardens.
A. A. Scot Skirving, C.M.G., M.B., 6 Rothesay Place.
Glenny Smeal, B.Sc., Mathematics Department.
J. L. S. Smith, M.A., B.Sc., 17 Elm Row.
A. E. Sprague, M.A., D.Sc., 32 Cluny Drive.
E. P. Stebbing, Hawthornden Castle, Lasswade.
Professor G. F. Stout, University of St Andrews.
J. W. Struthers, M.B., 15 Ainslie Place.
W. J. Stuart, M.B., 9 Chester Street.
W. G. Sym, M.D., 12 Alva Street.
William White Taylor, M.A., D.Sc., Park Villa, Liberton.
J. B. Todd, B.Sc., A.M.I.Mech.E., 86 Montpelier Park.
A. Logan Turner, M.D., 27 Walker Street.
Charles Tweedie, M.A., B.Sc., University.
Henry Wade, M.D., 6 Manor Place.
May L. Walker, M.A., B.Sc., M.B., Physiology Department.
Norman Walker, M.D., 7 Manor Place.
David Wallace, M.B., C.M., 29 Charlotte Square.
D. Chalmers Watson, M.D., 11 Walker Street.
A. Pirie Watson, M.B., 58 Melville Street.
J. A. S. Watson, B.Sc., 30 Mayfield Terrace.
A. Blyth Webster, M.A., 20 Great Stuart Street.
D. P. D. Wilkie, M.D., Ch.M., 56 Manor Place.
A. M. Williams, M.A., D.Sc., 11 Hillside Street.
Malcolm Wilson, D.Sc., Royal Botanic Garden.
Philip F. Wood, M.A., B.C.L., LL.B., 13 Great Stuart Street.
W. Quarry Wood, M.B., 48 Northumberland Street.

UNIVERSITY OFFICIALS.

Date of Institution.	CHANCELLOR.	Appointed.
1850	RIGHT HON. ARTHUR JAMES BALFOUR, O.M., D.C.L., LL.D.	1891

VICE-CHANCELLOR.

1859	PRINCIPAL SIR JAMES ALFRED EWING, K.C.B., M.A., D.Sc., LL.D., F.R.S.	1916
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RECTOR.

1859	ADMIRAL OF THE FLEET THE RIGHT HON. EARL BEATTY, O.M., G.C.B., G.C.V.O., D.S.O.	1917
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PRINCIPAL.

1882	SIR JAMES ALFRED EWING, K.C.B., M.A., D.Sc., LL.D., F.R.S.	1916
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REPRESENTATIVES IN PARLIAMENT.

1918	SIR WILLIAM WATSON CHEYNE, Bart., K.C.M.G., M.B., F.R.C.S., LL.D., F.R.S.; DUGALD M'CAIG COWAN, M.A.; and RIGHT HON. SIR HENRY CRAIK, P.C., K.C.B., M.A., LL.D.	1918
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SECRETARY OF THE UNIVERSITY.

WILLIAM WILSON, M.A., LL.B., Advocate.

UNIVERSITY COURT.

President—THE RECTOR, *Ex officio*.

THE PRINCIPAL	<i>Ex officio</i> .	
THE RIGHT HON. THE LORD PRO- VOST of Edinburgh	<i>Ex officio</i> .	
THE HON. LORD DUNDAS, B.A., LL.D., D.L.	Assessor nominated by Chancellor	1901
JAMES WALKER, C.A., LL.D.	Do. do.	Rector .. 1907
COUNCILLOR J. M. RUSK, S.S.C.	Do. elected by Town Council	1918
R. M'KENZIE JOHNSTON, M.D.	Do. do.	General Council 1903
COUNCILLOR DAVID D. BUCHAN, LL.B., S.S.C.	Do. do.	do. 1909
SIR GEORGE A. BERRY, M.B.	Do. do.	do. 1911
JOHN B. CLARK, M.A.	Do. do.	do. 1917
PROFESSOR JOHN R. KINKINE, K.C., M.A., LL.D.	Do. do.	Senatus 1901
PROFESSOR THOMAS HUDSON BEARE, B.A., B.Sc., M.I.C.E.	Do. do.	do. 1908
PROFESSOR SIR RICHARD LODGE, M.A., LL.D.	Do. do.	do. 1911
PROFESSOR HARVEY LITTLEJOHN, M.A., M.B., B.Sc.	Do. do.	do. 1913

Factor and Law Agent—SIR HENRY COOK, W.S.

Auditor—C. F. W. MACPHERSON, C.A.

CURATORS OF PATRONAGE.

			Appointed.
PRINCIPAL SIR J. ALFRED EWING, K.C.B.,	} Elected by University Court	1916	
M.A., LL.D. .. .. .		..	.. 1916
R. M'KENZIE JOHNSTON, M.D.	Elected by	do.	.. 1917
THE HON. LORD DUNDAS, B.A., LL.D., D.L.	Elected by	do.	.. 1916
RIGHT HON. THE LORD PROVOST	Elected by Town Council	do.	.. 1916
TREASURER CHESSER	Elected by	do.	.. 1918
BAILIE WALLACE DUNLOP, M.A.	Elected by	do.	.. 1918
BAILIE MALCOLM STUART, B.A.	Elected by	do.	.. 1918

Secretary—A. B. FLEMING, W.S., 4 Albany Place.

SENATUS ACADEMICUS.

President—THE PRINCIPAL.

FACULTY OF ARTS.

Dean—Professor Sir RICHARD LODGE, M.A., LL.D.

Date of Institution.	Chairs.	Professors.	Appointed.	Patrons.
1760	Rhetoric and English Literature	HERBERT JOHN CLIFFORD	1915	Crown.
		GRIERSON, M.A., LL.D.		
1583	Humanity	OLIFFE LEIGH RICHMOND, M.A.	1919	{ Lds. of Soc., Chr., Fac. of Adv. and W.S. Society. ¹
1583	Greek	ALEXANDER WILLIAM MAIR, M.A., Litt.D.	1903	Curators.
1642	Hebrew and Semitic Languages	ARCH. ROBT. STIRLING	1895	Curators.
1862	Sanskrit and Comparative Philology ²	KENNEDY, B.D., D.D. ARTHUR BERRIEDALE KEITH, M.A., D.Litt., D.C.L.	1914	Crown.
1882	Celtic Languages, Literature, History, and Antiquities ³	WILLIAM JOHN WATSON, M.A., LL.D.	1914	Curators.
1918	French	CHAS. SAROLEA, K.O.L., Ph.D., D.Litt., LL.D., D.Jur.	1918	University Court.
1919	German	*	*	University Court.
1583	Mathematics	EDMUND TAYLOR WHITTAKER, M.A., Sc.D., F.R.S.	1912	Curators.
1583	Natural Philosophy	CHAS. GLOVER BARKLA, M.A., D.Sc., F.R.S. (Nobel Laureate)	1913	Curators.
1583	Logic and Metaphysics	NORMAN KEMP SMITH, M.A., D.Phil.	1919	Curators.
1583	Moral Philosophy	JAMES SETH, M.A.	1898	Curators.
1719	Constitutional Law and Constitutional History	J. H. MILLAR, M.A., LL.B.	1909	Fac. of Adv. and Cur.
1893	History	SIR RICHARD LODGE, M.A., LL.D.	1899	University Court.
1901	Ancient History and Paleography ⁴	ROBERT KERR HANNAY, M.A.	1919	University Court.
1694	Ecclesiastical History	JAMES MACKINNON, M.A., Ph.D., D.D.	1908	Crown

¹ The Judges of the Court of Session nominate two Delegates, the Curators two, the Faculty of Advocates one, and the Society of Writers to the Signet one. These Delegates appoint the Professor, who receives his Commission from the Curators.

² This Chair was originally endowed by John Muir, of the Bengal Civil Service, and by a Parliamentary vote.

³ Originally endowed, 1882, with a sum of £14,000, raised by public subscription.

⁴ Sir William Fraser Chair.

Date of Institution.	Chairs.	Professors.	Appointed.	Patrons.
1871	Commercial and Political Economy and Mercantile Law ¹	JOSEPH SHIELD NICHOLSON, M.A., D.Sc.	1880	Cur. and Merch. Co.
1879	Fine Art ²	GERARD BROWN, M.A.	1880	Univ. Ct., Pres. R. Scott. Acad.
1876	Theory, History, and Practice of Education ³	ALEXANDER DARROCH, M.A.	1908	Curators.
1919	Accounting and Business Method ⁴	*		University Court.

FACULTY OF SCIENCE.

Dean—Professor HUDSON BEARE, B.A., B.Sc., M.I.C.E.

1583	Mathematics	EDMUND TAYLOR WHITTAKER, M.A., Sc.D., F.R.S.	1912	Curators.
1583	Natural Philosophy	CHAS. GLOVER BARKLA, M.A., D.Sc., F.R.S.	1913	Curators.
1786	Astronomy	RALPH ALLEN SAMPSON, M.A., D.Sc., F.R.S.	1910	Crown.
1713	Chemistry	JAMES WALKER, D.Sc., F.R.S.	1908	Curators.
1919	Chemistry in relation to Medicine	GEORGE BARGER, M.A., D.Sc., F.R.S.	1919	University Court.
1767	Natural History	JAMES COSSAR EWART, M.D., F.R.S.	1882	Curators.
1919	Zoology	*		University Court.
1676	Botany	ISAAC BAYLEY BALFOUR, M.D., D.Sc., F.R.S.	1888	Crown.
1705	Anatomy	ARTHUR ROBINSON, M.D.	1909	Curators.
1685	Physiology	SIR EDWARD ALBERT SHARPEY SCHAPER, LL.D., F.R.S.	1899	Curators.
1871	Geology ⁵	THOMAS JOHN JEHU, M.A., M.D.	1914	Crown.
1868	Engineering ⁶	THOS. HUDSON BEARE, B.A., B.Sc., M.I.C.E.	1901	Crown.
1790	Agriculture and Rural Economy ⁷	ROBERT WALLACE	1885	Lds. of Sess., Cur., and Univ. Court.
1898	Public Health ⁸	CHAS. HUNTER STEWART, M.B., C.M., D.Sc.	1898	University Court.
1831	Pathology	JAMES LORRAIN SMITH, M.A., M.D., F.R.S.	1912	Curators.
1768	Materia Medica	ARTHUR ROBERTSON CUSHNY, M.A., M.D., LL.D., F.R.S.	1913	Curators.
1913	Bacteriology ⁹	JAMES RITCHIE, M.A., M.D.	1913	University Court.
1919	Forestry	*		University Court.

¹ Endowed in 1871 by the Merchant Company of Edinburgh, and other Governors of George Watson's and Daniel Stewart's Colleges.

² Endowed by the late Mr H. G. Watson, R.S.A., and Miss Frances Watson.

³ Endowed by the Trustees of the late Rev. Dr Andrew Bell, and supplemented by the Educational Endowments Commission.

⁴ Endowed by subscriptions from members of the Edinburgh and Leith Chambers of Commerce, the Merchant Company of Edinburgh, and other bodies.

⁵ Endowed by Sir Roderick Impey Murchison, Bart.

⁶ Endowed by Sir David Baxter.

⁷ The Professor is elected by nine Delegates, three chosen by the Judges of the Court of Session, three by the Curators, and three by the University Court.

⁸ Bruce and John Usher Chair.

⁹ Robert Irvine Chair.

UNIVERSITY OFFICIALS

FACULTY OF DIVINITY.

Dean—Professor PATERSON, D.D.

Date of Institution.	Chairs.	Professors.	Appointed.	Patrons.
1853	Divinity	WM. PATERSON M.A., B.D., D.D.	1908	Curators.
1846	Biblical Criticism and Biblical Antiquities	WM. ALEX. CURTIS, M.A., B.D., D.Litt., D.D.	1915	Crown.
1694	Ecclesiastical History ..	JAMES MACKINNON, M.A., Ph.D., D.D.	1908	Crown.
1642	Hebrew and Semitic Languages	ARCH. ROBT. STIRLING KENNEDY, B.D., D.D.	1895	Curators.

FACULTY OF LAW.

Dean—Professor JAMES MACKINTOSH, K.C., B.A., LL.D.

1707	Public Law	Sir LUDOVIC J. GRANT, Bart., B.A., LL.D.	1890	Crown.
1710	Civil Law	JAS. MACKINTOSH, K.C., B.A., LL.D.	1898	Fac. of Adv., and Cur. ¹
1719	Constitutional Law and Constitutional History	J. H. MILLAR, M.A., LL.B.	1900	Do. ¹
1722	Scots Law	JOHN RANKINE, K.C., LL.D.	1888	Do. ¹
1807	Forensic Medicine ..	HARVEY LITTLEJOHN, M.A., M.B., B.Sc.	1906	Crown.
1825	Conveyancing ²	JOHN LITTLE MOUNSEY, W.S.	1900	Cur., Dep.-Kpr., and W.S. Soc. ³
1871	Commercial and Political Economy and Mercan- tile Law	JOSEPH SHIELD NICHOL- SON, M.A., D.Sc.	1880	Cur., and Merch. Co.
1901	Ancient History and Palaeography ⁴	ROBERT KERR HANNAY, M.A.	1919	University Court.

FACULTY OF MEDICINE.

Dean—Professor J. LORRAIN SMITH, M.A., M.D., F.R.S.

1718	Chemistry	JAMES WALKER, D.Sc., F.R.S.	1908	Curators.
1919	Chemistry in relation to Medicine	GEORGE BARGER, M.A., D.Sc., F.R.S.	1919	University Court.
1767	Natural History	JAMES COSSAR EWART, M.D., F.R.S.	1882	Curators.
1919	Zoology	*	*	University Court.
1676	Botany	ISAAC BAYLEY BALFOUR, M.D., D.Sc., F.R.S.	1888	Crown.
1706	Anatomy	ARTHUR ROBINSON, M.D.	1900	Curators.
1685	Physiology	Sir EDWARD ALBERT SHARPEY SCHAFER, LL.D., F.R.S.	1890	Curators.
1881	Pathology	JAMES LORRAIN SMITH, M.A., M.D., F.R.S.	1912	Curators.
1768	Materia Medica	ARTHUR ROBERTSON CUSHNY, M.A., M.D., LL.D., F.R.S.	1908	Curators.
1685	Medicine	Geo. LOVELL GULLAND, C.M.G., M.A., B.Sc., M.D.	1915	Curators.

¹ For each of these Chairs the Faculty of Advocates send to the Curators the names of two persons, of whom the Curators must choose one.

² Endowed by the Society of Writers to the Signet.

³ The Election is by—(1) Two Delegates from the Curators; (2) Two from the Society of Writers to the Signet; and (3) The Deputy-Keeper of the Signet.

⁴ Sir William Fraser Chair.

UNIVERSITY OFFICIALS

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Date of Institution.	Chair.	Professor.	Appointed.	Patrons.
1831	Surgery	H. ALEXIS THOMSON, C.M.G., M.D.	1909	Curators.
1726	Midwifery	Sir JOHN HALLIDAY CROOM, M.D.	1905	Curators.
1807	Forensic Medicine ..	HARVEY LITTLEJOHN, M.A., M.B., B.Sc.	1906	Crown.
1803	Clinical Surgery ..	Sir HAROLD JALLAND STILES, M.B., C.M.	1919	Crown.
1741	Clinical Medicine ..	GEORGE LOVELL GUL- LAND, C.M.G., M.A., B.Sc., M.D.	1915	
1913	Clinical Medicine ¹ ..	JONATHAN MEAKINS, M.D. FRANCIS DAREY BOYD, C.B., M.D.	1919	University Court.
1898	Public Health ² ..	CHAS. HUNTER STEWART, M.B., C.M., D.Sc.	1898	University Court.
1913	Bacteriology ³ ..	JAMES RITCHIE, M.A., M.D.	1913	University Court.
1917	Tuberculosis ⁴ ..	Sir ROBERT W. PHILIP, M.A., M.D.	1917	University Court.
1919	Therapeutics ..	JONATHAN MEAKINS, M.D.	1919	University Court.
1919	Psychiatry ⁵ ..	" " " "		University Court.

FACULTY OF MUSIC.

Dean—Professor TOVEY ; The PRINCIPAL, *ex officio* ;

Professor WALKER, appointed by the Senatus.

1839	Reid Chair of Music ..	DONALD FRANCIS TOVEY, B.A.	1914	University Court.
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UNIVERSITY LECTURERS.

Date of Institution of Lectureships.	Subjects.	Lecturers.	Appointed.	Patrons.
1892	Rhetoric and English Literature	A. BLYTH WEBSTER, M.A. GEORGE KITCHIN, M.A., B.Litt.	1905 1911	University Court. Do.
1892	Latin	BRUCE DICKINS, M.A. JAMES MILL, M.A.	1919 1896	Do. Do.
1892	Greek	J. F. MOUNTFORD, M.A.	1919	Do.
1912	Arabic	EDWARD ROBERTSON, M.A., B.D., D.Litt.	1913	Do.
1892	Mathematics ..	CHARLES TWEDDIE, M.A., B.Sc.	1892	Do.
1903	Do.	ELLICE M. HORSBURGH, M.A., D.Sc., A.M.I.C.E.	1903	Do.
1905	Do.	DAVID GIBB, M.A., B.Sc.	1909	Do.
1905	Do.	RAYMOND W. BRINK, M.A., Ph.D.	1919	Do.
1919	Actuarial Science ..	GLENNY Smeal, B.Sc. A. B. SPRAGUE, M.A., D.Sc., P.F.A., F.I.A.	1919 1919	Do. Do.
1892	Applied Mathematics ..	CARGILL G. KNOTT, M.A., D.Sc., LL.D.	1892	Do.
1892	Natural Philosophy ..	GEORGE A. CARSE, M.A., D.Sc. J. R. MILNE, D.Sc.	1907 1912	Do. Do.
		H. S. ALLEN, M.A., D.Sc.	1919	Do.

¹ Moncrieff Arnott Chair. ² Bruce and John Usher Chair. ³ Robert Irvine Chair.

⁴ Endowed by the Royal Victoria Hospital Tuberculosis Trust.

⁵ Endowed by the Royal Edinburgh Asylum for the Insane.

Date of Institution of Lectureships.	Subjects.	Lecturers.	Appointed.	Patrons.
1919	Ancient Philosophy ..	ROBERT P. HARDIE, M.A.	1919	University Court
1906	Psychology	JAMES DREVER, M.A., B.Sc., D.Phil.		and Combe Trust.
1892	Moral Philosophy ..	HENRY BARKER, M.A.	1898	University Court.
1894	French	MARY BURNS, M.A., Docteur de l'Université de Paris	1919	Do.
1894	German	OTTO SCHLAPP, Ph.D. ...	1894	Do.
		HANS F. EGGELE, M.A.	1900	Do.
1919	Italian	ERNESTO GRILLO, M.A., D.Litt., LL.D.	1919	Do.
1919	Spanish	B. SANINO CANO, M.A.	1919	Do.
1919	Russian	HUGH C. BRENNAN, M.A.	1919	Do.
1900	Modern History ¹ ..	DAV. PLAYFAIR HEATLEY	1900	Do.
1901	Ancient History (Greek and Roman) ²	A. F. GILES, M.A.	1907	Do.
1908	Geography	GEORGE G. CHISHOLM, M.A., B.Sc.	1908	Do.
		ALICE B. LENNIE, M.A., B.Sc.	1919	
1901	Political Economy ..	J. B. GUILD, M.A.	1913	Do.
1919	Realistic Economics ..	WILLIAM H. MYLES, M.A.	1919	Do.
1919	Organisation of Industry and Commerce ³	* * *		Do.
1906	Economic History ..	J. F. REES, M.A.	1913	Do.
1909	Banking (Charles Bruce Lectureship)	ALLAN McNEIL, S.S.C.	1910	Do. ⁴
1907	Statistics and Mathe- matical Economics	GEORGE A. CARSE, M.A., D.Sc.	1907	Do.
1912	Colonial and Indian History	JOHN EWING, M.A.	1919	Do.
1914	Education	D. KENNEDY - FRASER, M.A., B.Sc.	1919	Do.
1919	Accounting and Busi- ness Method (<i>temp.</i>)	THOMAS P. LAIRD, C.A.	1919	Do.
1894	Chemistry	LEONARD DOBBIN, Ph.D.	1894	Do.
	Do.	JOHN E. MACKENZIE, Ph.D., D.Sc.	1908	Do.
	Do.	SYDNEY A. KAY, D.Sc.	1914	Do.
	Do.	H. G. RULE, Ph.D., D.Sc.	1915	Do.
	Do.	A. M. WILLIAMS, M.A., D.Sc.	1918	Do.
	Do.	DAVID BALSILLIE, D.Sc.	1918	Do.
	Do.	J. D. M. ROSS, M.A., B.Sc.	1919	Do.
1919	Technical Chemistry ..	A. C. CUMMING, D.Sc.	1919	Do.
1894	Petrology	ROBERT CAMPELL, M.A., D.Sc.	1904	Do.
1910	Paleontology	T. M. FINLAY, M.A., B.Sc.	1914	Do.
1908	Botany	J. L. S. SMITH, M.A., B.Sc.	1919	Do.
1894	Plant Physiology ..	ROBERT J. PEALLING, M.A., B.Sc.	1919	Do.
1908	Forest Botany and Indian Forest Trees	W. G. CRAIG, M.A.	1915	Do.
1911	Mycology and Bacteri- ology	MALCOLM WILSON, D.Sc.	1911	Do.
1902	Chemical Physiology ..	W. W. TAYLOR, M.A., D.Sc.	1915	Do.
1902	Experimental Physiology	MAY L. WALKER, M.A., B.Sc., M.B.	1919	Do.

¹ Mackay Lectures.² Sir William Fraser Lectures.³ Endowed by subscriptions from members of the Edinburgh and Leith Chambers of Commerce, the Merchant Company of Edinburgh, and other bodies.⁴ Appointment made after consultation with the President for the time being of the Institute of Bankers in Scotland.

UNIVERSITY OFFICIALS

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Date of Institution of Lectureships.	Subjects.	Lecturers.	Appointed.	Patrons.
1902	Histology	R. K. S. LIM, M.B.	1919	University Court.
1913	Physiology of the Nervous System	A. NINIAN BRUCE, D.Sc., M.D.	1913	Do.
1895	Engineering Drawing & Structural Design	WALTER HUME KERR, M.A., B.Sc.	1895	Do.
1906	Surveying & Hydraulics	J. B. TODD, B.Sc., A.M.I.Mech.E.	1906	Do.
1914	Strength of Materials & Forest Engineering	WILLIAM GORDON, B.Sc., A.M.I.Mech.E.	1914	Do.
1919	Geometrical and Graphical Drawing	H. C. GARDHAM, B.Sc.	1919	Do.
1911	Agriculture	J.A.S. WATSON, M.C., B.Sc.	1911	Do.
1889	Forestry	E. P. STEERING, F.L.S., F.G.S.	1910	Do.
		J. LYFORD PIKE, M.A., B.Sc.	1913	Do.
		DONALD C. FERGUSON, M.C., B.Sc.	1919	Do.
1890	Agricultural Entomology ¹	R. STEWART MACDOUGALL, M.A., D.Sc.	1906	Do.
1908	Forest Zoology	Do.	1908	Do.
1910	Anthropology and Prehistoric Archaeology	*		Do.
1911	Comparative Anatomy ..	O. C. BRADLEY, M.D., D.Sc.	1911	Do.
1887	Gifford Lecturer on Natural Theology	Professor G. F. STOUT ..	..	Senatus Academicus
1889	Gunning Lecturer ..	Rev. COLIN CAMPBELL, D.D.	1915	Divinity Faculty.
1894	International Private Law	D. OSWALD DYKES, M.A., LL.B.	1917	University Court.
1884	Evidence and Procedure	W. J. LEWIS, B.L., S.S.C.	1910	Do.
1904	Landlord and Tenant ..	*		Do.
1904	Administrative Law ..	PHILIP F. WOOD, M.A., LL.B.	1904	Do.
1908	Mercantile Law	HENRY AITKEN, K.C. ..	1908	Do.
1912	English Law	H. BURN MURDOCH, B.A., LL.B.	1912	Do.
1883	Diseases of the Eye ..	W. G. SYM, M.D.	1912	Do.
		J. V. PATERSON, M.B., C.M.	1917	Do.
1885	Clinical Instruction on Diseases of Children	J. STEWART FOWLER, M.D., and staff of the Royal Hospital for Sick Children	1913	Do.
1885	Comp. Embryology and Vertebrate Morphology	JOHN BEARD, D.Sc.	1894	Do.
1911	Genetics	*		Do.
1894	Anatomy	E. B. JAMILSON, M.D. ..	1906	Do.
		F. E. JARDINE, M.B. ..	1919	Do.
		WALTER Q. WOOD, M.B.	1919	Do.
1894	Experimental Pharmacology	WILLIAM C. SILLAR, M.D., B.Sc.	1894	Do.
1910	Practical Pathology ..	D. MURRAY LYON, M.B.	1919	Do.
1913	Morbid Anatomy ..	JAMES MILLER, M.D. ..	1919	Do.
1914	Surgical Pathology ..	JAMES M. GRAHAM, M.B., Ch.M.	1914	Do.
1919	Orthopedics	*	1919	Do.
1897	Diseases of the Larynx, Ear, and Nose	A. LOGAN TURNER, M.D.	1906	Do.
		J. MALCOLM FARQUHARSON, M.B.	1917	Do.

¹ Steven Lectureship. Patrons: The Principal, the Professor of Agriculture, and three representative members appointed by the University Court.

Date of Institution of Lectureships.	Subjects.	Lecturers.	Appointed.	Patrons.
1898	Diseases of Tropical Climates	Lt.-Col. D. G. MARSHALL, M.B., I.M.S.	1908	University Court.
1899	Clinical Instruction on Diseases of the Skin	NORMAN WALKER, M.D. FREDERICK GARDINER, M.D.	1906 1913	Do. Do.
1904	Infective Fevers	ALEXANDER JAMES, M.D. C. B. KER, M.D. . . .	1908 1904	Do. Do.
1916	Midwifery (to Women) . .	J. W. BALLANTYNE, M.D.	1916	Do.
1906	Systematic and Clinical Gynecology	A. H. F. BARROUR, M.A., M.D., LL.D.	1906	Do.
	Clinical Gynecology ..	N. T. BREWIS, M.B. (Senior Lecturer)	1913	Do.
		J. HAIG FERGUSON, M.D. WILLIAM FORDYCE, M.D.	1913 1913	Do. Do.
1907	History of Medicine ..	JOHN D. COMRIE, M.A., B.Sc., M.D.	1908	Do.
1908	Clinical Surgery	Senior Lecturers— PROF. ALEXIS THOMSON, . . J. W. B. HODSDON, M.D. DAVID WALLACE, C.M.G., M.B. ALEXANDER MILES, M.D. J. W. DOWDEN, M.B. . . A. A. SCOT SKIRVING, C.M.G., M.B.	1909 1908 1910 1912 1916 1918	Do. Do. Do. Do. Do. Do.
		Lecturers— GEORGE L. CHIENE, M.B., C.M. W. J. STUART, M.B., Ch.B. J. W. STRUTHERS, M.B., Ch.B. HENRY WADE, M.D. . . D. P. D. WILKIE, M.D. JOHN FRASER, M.D., Ch.M. JAS. M. GRAHAM, M.B., Ch.M. A. PIRIE WATSON, M.B. F. E. JARDINE, M.B. . .	1913 1913 1913 1913 1913 1919 1919 1919	Do. Do. Do. Do. Do. Do. Do. Do.
1918	Clinical Medicine	Senior Lecturers— Prof. SIR ROBT. W. PHILIP R. A. FLEMING, M.D. . . HARRY RAINY, M.A., M.D. D. CHALMERS WATSON, M.D. EDWIN BRAMWELL, M.D.	1917 1915 1918 1919 1919	Do. Do. Do. Do. Do.
		Lecturers— EDWIN MATTHEW, M.D. W. T. RITCHIE, M.D. . . JOHN EASON, M.D. . . J. D. COMRIE, M.D. . . ALEX. GOODALL, M.D. CHAS. M'NEIL, M.A., M.D. J. J. GRAHAM BROWN, M.D.	1913 1913 1913 1913 1913 1919 1912	Do. Do. Do. Do. Do. Do. Do.
1912	Neurology	HARRY RAINY, M.A., M.D.	1912	Do.
1912	Physical Methods in the Treatment of Disease	M.D.		
1914	Music	MATTHEW SHIRLAW, Mus.D.	1914	Do.

UNIVERSITY ASSISTANTS.

IN THE FACULTY OF ARTS.

Subjects.	Assistants.
Rhetoric and Eng. Literature	*
Humanity.. ..	Miss E. M. STEUART, M.A.; CATH. A. NICOLSON, M.A.
Greek	*
French	*
German	AGNES L. ANDERSON, M.A.
Hebrew & Semitic Languages..	*
Mathematics	*
Natural Philosophy	R. T. DUNBAR, M.A., B.Sc.; T. A. LUMSDEN, M.A., B.Sc. (under the Nichol Foundation); R. V. CRAN- FIELD (Mechanical).
Logic and Metaphysics	H. F. HALLETT, M.A.
Moral Philosophy	*
Psychology	MARY COLLINS, M.A., B.Ed.
History	E. W. M. BALFOUR MELVILLE; MARY G. WILLIAMSON, M.A.
Political Economy	MARY T. RANKIN, M.A., D.Phil.
Education	MARGUERITE E. BECKERSTETH.

IN THE FACULTY OF SCIENCE.

Geology	*
Engineering	*
Agriculture	*
Forestry	*
Comparative Anatomy.. ..	W. M. MITCHELL, B.Sc., M.R.C.V.S.

IN THE FACULTY OF DIVINITY.

Hebrew & Semitic Languages..	*
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IN THE FACULTY OF LAW.

Civil Law	CHARLES MACKINTOSH, B.A., LL.B.
Scots Law.. ..	WALTER HAIG STEVENSON, M.A., LL.B.
Conveyancing	JOHN ALEX. GRANT.
Forensic Medicine	*

IN THE FACULTY OF MEDICINE.

Chemistry.. ..	R. K. S. MITCHELL, B.Sc.; MARY E. MACKENZIE, B.Sc.; H. J. S. KING, B.Sc.; ANNIE H. NUMBERS, M.A., B.Sc.; S. DUNNILL, A.R.C.S.; DOUGLAS M. REID; WALTER MURRAY (Technical Assistant).
Zoology	J. LESLIE PURSER, M.A.; F. E. CREW, M.B.; AUGUSTA LAMONT, B.Sc.
Botany	JAMES TEMPLETON, B.Sc.
Anatomy	JANET SMITH, M.B., Ch.B.
Physiology	RUTH FAIRBAIRN, B.Sc.; R. J. S. M'DOWALL, M.B.; HENRY DRYERRE, M.R.C.S.Eng.; DOROTHY D. CHARLTON; JAMES PRIRIE, and JAMES SINCLAIR (Technical Assistants).
Pathology (and Bacteriology)..	ANDREW RUTHERFORD, M.B.; GEORGE RICHARDSON, M.B.; PETER MACALLUM, M.B.; B. J. RYRIE, M.B.; J. E. MACARTNEY, M.B.; A. V. DILL, M.B.; RICHARD MUIR (Demonstrator of Pathological and Bacteriological Methods).

Subjects.	Assistants.
Materia Medica	C. G. LAMBEK, M.B.
Medicine	G. D. MATHEWSON, M.B., B.Sc.
Clinical Medicine	Clinical Tutors:—
Surgery	A. PIRIE WATSON, M.A., M.B., Ch.M.; R. C. ALEXANDER, M.A., M.B., Ch.B.; FRANK PETTIGREW (Technical Assistant).
Clinical Surgery	* * *
Midwifery	RALPH C. L. BATCHELOR, M.B.
Gynecology	R. W. JOHNSTONE, M.A., M.D. (Clinical Tutor); JAMES YOUNG, M.D. (Clinical Tutor).
Midwifery and Gynecology ..	JAS. SHEARSEY (Technical Asst.).
Forensic Medicine	* * *
Public Health	J. BUCHANAN YOUNG, M.B., D.Sc.
Tuberculosis	ANDREW F. HEWAT, M.B.
Diseases of the Ear, Nose, and Throat	W. T. GARDINER, M.B., Ch.B.
Diseases of the Eye	H. M. TRAQUAIR, M.D.

EXAMINERS.

For Preliminary Examination

Subjects.	Examiners.
English	Rev. JOHN MORRISON, D.D.
Latin	JAMES MILL, M.A.
Greek	Prof. A. W. MAIR.
Mathematics	ARCHIBALD MILNE, M.A., D.Sc., and C. TWEEDIE, M.A., B.Sc.
French	* * *
German	F. C. NICHOLSON, M.A.
Italian	* * *
Dynamics	G. A. CARSE, M.A., D.Sc.

For Degrees.

The Examiners for Degrees are the Professors of or Lecturers on the different subjects, along with additional Examiners appointed by the University Court. As a general rule, no Professor, Lecturer, or University Assistant or Demonstrator can be appointed an additional Examiner.

FACULTY OF ARTS.

The Professors of or Lecturers on the several Subjects, and the following additional Examiners:—

Language and Literature.

Subjects.	Examiners.	Appointed.
Latin	} W. T. VESSEY	1919
Greek		
English	Prof. E. de SELINCOURT, D.Litt.	1917
French	Dr A. T. BAKER	1919
German	F. C. NICHOLSON, M.A. ..	1917
Sanskrit	M. de Z. WICKREMASEINGHE ..	1919
Hebrew, Arabic, etc. ..	A. S. FULTON, M.A. ..	1917
Classical Archaeology ..	GEORGE MACDONALD, M.A., LL.D.	1917
Celtic	Rev. M. MACLENNAN, D.D. ..	1919

Mental Philosophy.

Subjects	Examiners.	Appointed.
Logic and Metaphysics..	Rev. JOHN BAILLIE, M.A.	1917
Moral Philosophy ..		
Psychology ..	BEATRICE EDGEELL, M.A., Ph.D.	1917
Political Economy ..	FRANK SPENCE, M.A., B.Sc.	1919
Economic History ..		
Education..	JOHN DAVIDSON, M.A., D.Phil...	1918
Experimental Education (for Education Degree)	ROBERT R. RUSK, M.A., Ph.D.	1918

Science.

Mathematics (Pure & Applied)	(Honours) Prof. J. H. HAVELOCK, F.R.S.	1916
	(Ordinary) ARCHIBALD MILNE, M.A., D.Sc.	1916
Experimental Physics ..	A. CRICHTON MITCHELL, D.Sc.	1914
Astronomy ..	Lieut.-Col. F. J. M. STRATTON, D.S.O.	1919
Chemistry ..	ALEX. LAUDER, D.Sc.	1913
Zoology ..	Professor J. P. HILL	1915
Botany and Forest Botany	Professor J. BRETLAND FARMER	1915
Geology ..	B. N. PEACH, LL.D., F.R.S.	1916
Geography ..	MARION I. NEWBIGIN, D.Sc.	1917

History and Law.

History ..	WM. C. A. ROSS, M.A.	1919
Scottish History ..	MARGARET ADAM, M.A.	1918
Ancient History ..	GILBERT WATSON, M.A.	1918
Archæology & Art (History of)	Miss M. BULLY	1919
Constitutional Law and Constitutional History	JOHN BARTHOLOMEW, M.A., LL.B.	1919
Ecclesiastical History ..	Rev. RICHARD BELL, M.A., B.D.	1917
Roman Law ..	JOHN A. INGLIS, B.A., LL.B.	1915
Public Law ..		
Mercantile Law ..	WM. CHREE, M.A., LL.B.	1915

FACULTY OF SCIENCE.**Pure Science.**

The Professors of or Lecturers on the several Subjects, and the additional Examiners in Mathematics, Natural Philosophy, Zoology, Botany, Chemistry, Astronomy, Anatomy, Physiology, and Geology.

Engineering.

The Professors of or Lecturers on the several Subjects, the additional Examiners in Mathematics, Natural Philosophy, and Chemistry, and in

Engineering ..	Professor J. GOODMAN, M.Inst.C.E.	1916
	Prof. STANFIELD, A.R.S.M., M.I.C.E.	1902
	Prof. F. G. BAILEY, M.A., M.I.E.E.	1904

Public Health.

The Professors of or Lecturers on the Subjects, the additional Examiner in Geology, and the following additional Examiners:—

Physics ..	A. CRICHTON MITCHELL, D.Sc.	1913
Laboratory Work ..	GEORGE P. YULE, M.D., B.Sc.	1916
Medicine in its bearings on Public Health	CLAUDE B. KER, M.D.	1917
Sanitation, Sanitary Law, and Vital Statistics	CHARLES PORTER, M.B., B.Sc.	1916

Agriculture and Forestry.

The Professors of or Lecturers on the Subjects, and the following additional Examiners:—

The additional Examiners in Mathematics, Chemistry, Botany, Natural History, and Geology, and in

Subjects	Examiners.	Appointed
Agriculture	Dr SHIERA GIBB	1918
Veterinary Hygiene	W. R. DAVIS, M.R.C.V.S.	1918
Agricultural and Forest Chemistry	Professor R. A. BERRY	1918
Political Economy	FRANK SPENCE, M.A., B.Sc.	1919
Forestry	Sir S. EARDLEY WILMOT	1919
Agricultural Entomology and Forest Zoology	Miss L. H. HUIE	1918
Forest Botany	Professor BRETLAND FARMER	1914

Veterinary Science.

The Professors of or Lecturers on the Subjects, and the additional Examiners in the various Subjects; also, in

Anatomy of Domesticated Animals	Professor E. SIMPSON SHAVE	1914
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FACULTY OF DIVINITY.

The Professors in the Faculty of Divinity, and the following additional Examiners:—

Rev. Professor ALEX. MARTIN, D.D.	1917
Rev. RICHARD BELL, M.A., B.D.	1917

FACULTY OF LAW.

The Professors of or Lecturers on the several Subjects, and the following additional Examiners:—

Civil Law, Public International Law, and General Jurisprudence	JOHN A. INGLIS, B.A., LL.B.	1915
Scots Law, Conveyancing, International Private Law, Evidence & Procedure, & Mercantile Law	WILLIAM CREEE, M.A., LL.B.	1915
Constitutional Law and Constitutional History, and Administrative Law	JOHN BARTHOLOMEW, M.A., LL.B.	1915
Forensic Medicine	D. P. FLEMING, Advocate	1919
Political Economy	FRANK SPENCE, M.A., B.Sc.	1919

FACULTY OF MEDICINE.

The Professors of or Lecturers on the several Subjects, and the following additional Examiners:—

Botany	Professor BRETLAND FARMER	1915
Zoology	Professor J. P. HILL	1915
Physics	DAWSON TURNER, M.D.	1919
Chemistry	ALEXANDER LAUDER, D.Sc.	1913
Anatomy	Prof. ROBERT HOWDEN	1917
Physiology	Prof. W. D. HALLIBURTON, F.R.S.	1917
Materia Medica	Professor J. A. GUNN	1916

Subjects.	Examiners.	Appointed.
Pathology	Professor R. R. DEAN	1916
Forensic Medicine	W. G. AITCHISON ROBERTSON, M.D.	1916
Public Health	CHARLES PORTER, M.B., B.Sc.	1916
Medicine	J. MACKIE WHYTE, M.A., M.D.	1916
Midwifery	Professor A. DONALD	1919
Surgery	J. H. PRINGLE, M.B., F.R.C.S.	1919
Clinical Surgery	J. H. PRINGLE, M.D., F.R.C.S.	1919
Practical Surgery	(Assistant) G. L. CHIRNE, M.B., C.M.	1915
	(Assistant) W. J. STUART, M.A., M.B., Ch.B.	1915

FACULTY OF MUSIC.

The Professor of Music, and H. P. ALLEN, Mus.Doc., 1919.

OFFICIAL ADVISERS.

Faculty of Arts—R. P. HARDIE, M.A.
C. G. KNOTT, M.A., D.Sc., LL.D.
JAMES MILL, M.A.

Faculty of Science—C. G. KNOTT, M.A., D.Sc., LL.D.

Department of Commerce—W. H. MYLES, M.A.

LADY WARDEN.

Mrs GARDEN BLAIRIE, M.B., Ch.B. (Cambridge Teacher's Certificate of Distinction).

EDITOR OF UNIVERSITY ROLL OF HONOUR.

Major JOHN E. MACKENZIE, D.Sc.

UNIVERSITY LIBRARY.

Librarian.—FRANK C. NICHOLSON, M.A.

Assistant Librarians.—DAVID CUTHBERTSON; EDMOND MURSET; PHILIP G. SHEPHERD; THOMAS R. HARLEY; DAVID KILGOUR; MARJORY WILSON, M.A.; CHARLOTTE R. LOWNIE, M.A.; JOANN B. HAWICK, M.A.; GEORGE TEMPLE (Medical Reading Room).

UNIVERSITY OFFICES.

Senior Clerk, Secretary's Office	JAMES DOWIE.
Assistant Clerks	THOS. F. HARLEY, GEORGE BUCKLE, JOHN MILLAR, WILLIAM A. COUTTS, W. F. CUTHBERTSON.
Typists	HELEN CORMACK, NETTA M. HENDERSON, M.A., MARGARET A. ISBISTER.
Organist	THOMAS H. COLLINSON, Mus.B.
Clerk of Works	WALTER CLARK.
Janitor and Mace-Bearer	WILLIAM S. MITCHELL.
Warder at Old Buildings	WILLIAM M. LORIMER.
Warder at New Buildings	ALEXANDER J. CROSBIE.
Warder at George Square Buildings	JAMES IRVINE.
Warder at Mathematics Department	JAMES GIVEN.
Caretaker, Music Class Room	C. W. WELBY.
Caretaker, John Usher Institute	JAMES CUMMING.
Caretaker, McEwan Hall	

• • • Staff of Servitors.

GENERAL COUNCIL.

President	The Right Hon. ARTHUR JAMES BALFOUR, O.M., D.C.L., etc., Chancellor of the University.
Vice-Presidents	The Rector, The Principal, The Chancellor's Assessor, The Rector's Assessor.
Representatives in Parliament ..	Sir WM. WATSON CHEYNE, Bart., K.C.M.G., M.B., F.R.C.S., L.L.D., F.R.S.; DUGALD M'CAIG COWAN, M.A.; and Rt. Hon. Sir HENRY CRAIK, P.C., K.C.B., M.A., L.L.D.
Convener of Business Committee ..	ALEXANDER MORGAN, M.A., D.Sc.
Convener of Finance Committee ..	THOMAS J. MILLAR, M.A., LL.B., C.A.
Registrar and Secretary	THOS. F. HARLEY.

OFFICE ARRANGEMENTS.

The General Office ("Matriculation Office") is in the Old Buildings, South Bridge Street. There all students matriculate (see below), and entries are made and fees paid for the Preliminary and Degree Examinations.

The Office of the Faculty of Medicine is in the New Buildings, Teviot Place, where enquiries regarding Graduation in the Faculty are dealt with, and Class Certificates are shown by candidates for Medical Degree Examinations. Here, also, **students commencing their studies in Medicine must call to see the Dean, during the first fortnight of the Session.**

Office hours :—During Session, 10-4 ; Saturdays, 10-1. During Vacation, 10-1, and closed on Saturdays.

The Class Fees are collected by the University Factor. For the purpose of receiving these, attendance is given for a short period at the beginning of the Winter and Summer Sessions, in the University Old Buildings. Fees not paid at these periods are taken at the Factor's Office, 61 Castle Street. All communications regarding Class Fees should be addressed to, and all cheques for the same be drawn in favour of, the Collector of Class Fees, University of Edinburgh.

For payment of Class Fees by the Carnegie Trust, see APPENDIX.

MATRICULATION.

University Matriculation consists in signing the Sponsio Academica, the Student thus entering his or her name in the Album of Students of the University, and in paying a fee of £1, 1s. for the academic year (1st Oct. to 1st Oct.), or a fee of 10s. 6d. for a Summer Session (1st April to 1st October). No person shall be deemed to be a Matriculated Student or shall enjoy any of the privileges of a Matriculated Student unless, in addition to paying the matriculation fee, he is enrolled as a Student in attendance in one or more classes in the University,

and has paid the fees entitling him to such attendance: Provided that nothing herein contained shall affect the right of the University Court to exact a fee in lieu of and not exceeding the matriculation fee from any candidate for any examination or for graduation, not being at the time a Matriculated Student, in addition to the fee payable for such examination or graduation (see p. 126, etc.). No one can attend a University Class without matriculating, except in those special cases in which an Entrance Fee of 5s. only is exacted (see page 16).

Students who do not intend to graduate may attend any of the classes on payment of the Matriculation and the Class Fees, without having passed any Preliminary Examination. Those who wish their classes to count for graduation must pass the Preliminary Examination.

The Matriculated Students elect the Rector of the University. In case of an equality of votes, the Chancellor, or failing him, the Principal, has the casting vote. Students are also admitted to the use of the University Library, and on certain days to the Museum of Natural History.

Candidates for Graduation who are attending Extra-Academical Lectures in Edinburgh, and not attending Classes within the University, must, at the beginning of each year, enrol their names in a book kept for that purpose, and pay a Fee of the same amount as the Matriculation Fee. In respect of such payment they have a right to use the University Library.

The *Sponsio Academica* signed by students on matriculating is as follows:—

QUOD FAUSTUM FELIXQUE SIT.

A.D.—

Ego Universitatis Academicæ Edinburgensis Discipulus sincerè ac sanctè promitto quod et syngraphâ hac meâ in perpetuum testatum cupio, mihi ante omnia cordi ac curæ futurum veræ pietatis studium; me etiam in assuetis academici curriculum studiis sedulum fore, ut adolescentem bene institutum decet; et quamdiu in illo curriculo permansero praeceptoribus omnibus morigerum memet præstiturum, nec ullius dissidii aut tumultus clam palamve vel auctorem vel participem futurum, et per reliquam vitam Universitatem Academicam Edinburgensem ipsam grato et benevolo animo prosecuturum, idque omnibus officiis pro facultate meâ et occasione data testaturum esse.

MATRICULATED STUDENTS

NUMBERS OF MATRICULATED STUDENTS.

(a) Total Number of Students.

	For the Academical Year, 1918-19.	For the Summer Term only, 1919.	Total.
Number of Matriculated Men Students	2187	532	2719
Number of Matriculated Women Students	823	12	835
	3010	544	3554

(b) Number of Students Matriculated in each Faculty.

FACULTY.	Academical Year, 1918-19.			Summer Term, 1919.			Total.
	Men.	Women.	Total.	Men.	Women.	Total.	
Arts	483	381	864	146	9	155	1019
Science	399	60	459	217	2	219	678
Divinity	23	...	23	24	...	24	47
Law	46	7	53	68	...	68	121
Medicine	1233	372	1605	77	1	78	1683
Music	3	3	6	...	...	...	6
	2187	823	3010	532	12	544	3554

UNIVERSITY ENTRANCE FEE FOR NON-MATRICULATED STUDENTS.

The University Court may admit non-Matriculated Students to any Class, on payment of an Entrance Fee (fixed at 5s.), in addition to the Class Fee; but such attendance (1) will not qualify for Graduation, (2) nor entitle the Student to a Certificate of Attendance, (3) nor confer any other University privilege.

Courses which may be attended under this Regulation :—

Fine Art, Short additional Courses on.

Comparative Embryology.

Forestry.
 Agricultural Entomology.
 Music Classes.
 Practical Pathological Bacteriology.
 Experimental Pharmacology.
 German Literature and Prose Composition Courses, 20 lectures each.
 French History and Literature Courses, 20 lectures each.
 Advanced Practical Physiology.
 Diseases of Tropical Climates.
 Mackay Lectures on History.
 Garton Lectures on Colonial and Indian Agriculture.
 Palæography.
 Engineering Junior Course—Spring Term (strength and elasticity of materials).
 Applied Anatomy.
 History of Medicine.
 Special Lectures on Engineering Laboratory work.
 Law of Landlord and Tenant.
 Banking.
 Special Advanced Courses by Professor J. Mackinnon.
 Neurology.
 Physical Therapeutics.
 Advanced Honours Mathematics.
 Genetics.
 Applied Zoology (Veterinary Course).
 Mycology (Veterinary Course).
 Political Economy (Elementary).
 Italian (Elementary).
 Spanish (Elementary).
 Russian (Elementary).
 Actuarial Science.

Number of Non-Matriculated Students who have paid the Entrance Fee, 1918-19 (1st Oct. to 1st Oct.), 74.

Other Courses may be sanctioned under this Regulation.

CONSTITUTION OF THE UNIVERSITY.

THE University of Edinburgh was originally the "College of Edinburgh" or "The Town's College," founded in 1583 by the Town Council of Edinburgh, under general powers granted by the Charter of King James VI., dated 14th April 1582, and sometimes referred to as the Charter of Foundation, though, technically, it hardly merits that description. In any case, from the first, the College possessed the privilege of conferring degrees. This privilege was ratified by the "Act of Confirmation," passed in 1621, which secured to the "College of James VI." (as it had come to be called) all the rights, immunities, and privileges enjoyed by the Universities of Scotland. This ratification was renewed in the Treaty of Union between England and Scotland, and in the Act of Security. Gradually, in Acts of General Assembly, of Town Council, and of Parliament, the "College of James VI." came to be styled "The University of Edinburgh"; but it remained under the control and patronage of the Town Council down to 1858, when, by the Universities Act, all the Universities of Scotland received new and autonomous constitutions.

By the Universities (Scotland) Act, 1889, the University Court was constituted a body corporate, to which the whole property belonging to the University at the passing of the Act was transferred, with full power of administration.

The Senatus, as heretofore, regulates the teaching and discipline of the University, subject to the provisions of the Universities Acts of 1858 and 1899.

CHANCELLOR.

The Chancellor is elected by the General Council for life. Changes in the ordinances and in University arrangements, proposed or approved by the University Court, must receive his sanction. Degrees are conferred by him, or by the Vice-Chancellor. The Chancellor is President of the General Council, and nominates an Assessor in the University Court. Appointments :—

Right Hon. Lord Brougham, 1859.

Right Hon. John Inglis, D.C.L., LL.D., 1868.

Right. Hon. ARTHUR J. BALFOUR, M.P., D.C.L., LL.D., etc., 1891.

VICE-CHANCELLOR.

The Vice-Chancellor, nominated by the Chancellor, may, in absence of the Chancellor, confer Degrees, but cannot discharge any other of the Chancellor's duties. In the Vice-Chancellor's absence, Degrees are conferred by the Principal, or by the senior member of Senatus.

The Vice-Chancellor acts as Returning Officer at Parliamentary Elections. If there be no Vice-Chancellor at the time, the University Court appoints one to act as Returning Officer. Appointments :—

Sir D. Brewster, appointed 1860.

Sir Alexander Grant, Bart.,
1868.

Sir William Muir, 1885.

Sir William Turner, K.C.B., 1903.

Sir J. ALFRED EWING, K.C.B., 1916.

RECTOR.

The Rector is elected by the Matriculated Students in the University on such day in October or November as may be fixed by the University Court, after consultation with the Senatus, but not later than the second Saturday in November. The term of office is three years. The next election will take place in 1920. The Rector is President of, and nominates an Assessor in, the University Court. He may, before he appoints his Assessor, confer with the Students' Representative Council. No

Principal or Professor of any Scottish University is eligible.
 Appointments:—

Rt. Hon. W. E. Gladstone, 1859.
 Thomas Carlyle, 1865.
 Rt. Hon. Lord Moncrieff, 1868.
 Sir W. Stirling Maxwell, Bart.,
 1871.
 Rt. Hon. Earl of Derby, 1874.
 Most Hon. the Marquess of Har-
 tington, 1877.
 Rt. Hon. Earl of Rosebery and
 Midlothian, 1880.
 Rt. Hon. Earl of Iddesleigh, 1883.
 Most Hon. the Marquess of Lothian,
 1887.
 Rt. Hon. George J. Goschen, 1890.

Rt. Hon. J. P. B. Robertson, 1893.
 Most Hon. Lord Balfour of Burleigh,
 1896.
 Most Hon. the Marquess of Duf-
 ferin and Ava, 1899.
 Rt. Hon. Sir Robert Bannatyne
 Finlay, 1902.
 Rt. Hon. Richard Burdon Haldane,
 1905.
 Rt. Hon. Geo. Wyndham, 1908.
 Rt. Hon. the Earl of Minto, 1911.
 Field-Marshal Rt. Hon. Earl
 Kitchener of Khartoum, 1914.
 Admiral Sir DAVID BEATTY, 1917.

REPRESENTATIVES IN PARLIAMENT.

Under the "Representation of the People (Scotland) Act," 8 Geo. 5, cap. 64, the General Councils of the four Scottish Universities form one constituency and elect three Members of Parliament.

When a poll is demanded, the votes are given by voting papers issued by the Registrar.

The appointments have been—

Sir William Watson Cheyne, Bart., K.C.M.G., M.B., F.R.C.S., LL.D., F.R.S. Dugald M'Craig Cowan, M.A. Rt. Hon. Sir Henry Craik, P.C., K.C.B., M.A., LL.D.	}	1918
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The numbers of names on the Registers for 1919 are as follows:—

St Andrews	2,691
Glasgow	...	...	...	...	8,755
Aberdeen	...	...	...	...	4,641
Edinburgh	...	...	...	...	12,235
Total in 1919	...	...	...	...	27,322

STATISTICS OF PARLIAMENTARY ELECTIONS are given on page 886.

UNIVERSITY COURT.

Under the Universities Act, 1858, the Court has power:—

1. To review all decisions of the Senatus, and to be a Court of Appeal from the Senatus, except as otherwise provided in the Universities Act.

2. To effect improvements in the internal arrangements of the University, after due communication with the Senatus, and with the sanction of the Chancellor: provided all such proposed improvements be submitted to the General Council for consideration.

3. To require due attention on the part of the Professors to the Regulations as to the mode of teaching, and other duties imposed on the Professors.

4. To fix and regulate, from time to time, the Fees in the several Classes.

5. Upon sufficient cause shown, and after due investigation, to censure any member of the Senatus, or to suspend him from office, and from the emoluments thereof, in whole or in part, for any period not exceeding one year, or to require him to retire on a retiring allowance, or to deprive him of office; and, during the suspension of any Professor, to make provision for the teaching of his class: provided no such sentence of censure, suspension, deprivation, etc., shall have effect until approved by His Majesty in Council.

By Sec. xix. any of the Rules and Ordinances enacted by the Universities Commissioners under the Act, may be altered or revoked by the University Court of the University to which they are applicable, but only with the written consent of the Chancellor, and with the approval of His Majesty in Council.

By the Universities (Scotland) Act, 1889, the University Court is a body corporate, with perpetual succession and a common seal; and all the property belonging to the University at the passing of the Act is now vested in that body.

By the same Act, the University Court, besides the powers conferred upon it by the Act of 1858, has power—

- (1.) To administer and manage the whole revenue and property of the University, including funds mortified for bursaries and other purposes, and have all the powers necessary for the purpose.
- (2.) To review any decision of the Senatus appealed against by a member of Senatus, or other member of the University having an interest, and to take into consideration all representations and reports made to it by the Senatus and by the General Council.
- (3.) To review, on representation made by any of its members, or by any member of Senatus, any decision which the Senatus may come to under section seven, sub-section one, but the University Court shall not review any decision of the Senatus in a matter of discipline, except upon appeal taken either by a member of Senatus or by a member of the University directly affected.

- (4.) To appoint professors whose chairs are in the patronage of the University; to appoint examiners and lecturers; and to grant recognition to the teaching of any college, or individual teacher, for the purposes of graduation.
- (5.) To define, on application by any member of Senatus, the nature and limits of a professor's duties under his commission.
- (6.) To take proceedings against a principal or professor, University lecturer, assistant, recognised teacher or examiner, or other person employed in teaching or examining, without the necessity of any one not a member of the Court appearing as prosecutor, and, in such proceedings, to call any member of the University to give evidence, and to require the production of documents, and to institute any inquiries it may deem necessary.
- (7.) To appoint from among members of the University or others, not being members of the Senatus, one-third of the members of any committee charged, by ordinance of the Commissioners, with the superintendence of any libraries or museums belonging to the University; and on representation made by any of its members, or by any member of Senatus, to review any decision which the Senatus, in the exercise of its powers, may come to in respect of the recommendations of such committee.
- (8.) To appoint committees of its own number, of not less than five members, with powers to report on any business entrusted to them by the University Court, or to carry out special instructions ordered by the Court.
- (9.) To elect the representative of the University on the General Medical Council, under the Medical Act, 1886.
- (10.) After the expiration of the powers of the Commission, to found new professorships, with the approval of the Universities Committee.

The University Court, by Section 21, has power to make new ordinances, with the approval of His Majesty in Council:

- (1.) With respect to the appropriation of the sum allotted to the University by the Commissioners out of the annual grant.
- (2.) Altering or revoking ordinances framed under the Universities Act, 1858, or this Act; and making new ordinances; provided that such ordinances, before being submitted to His Majesty for approval, have been communicated by the University Court to the Senatus, to the General Council, and to the University Courts of the other Universities.

The Court shall meet for the despatch of ordinary business on the Monday occurring in the seven days beginning on the 12th and ending with the 18th of each month, excepting the months of August and September, in which months the Court shall not meet, and also excepting the months of October and April, in which months the Court shall meet on the Monday occurring in the seven days beginning on the 18th and ending with the 24th.

Other meetings may be called as the Court may direct. Any meeting may be postponed. Special Meetings may be called by order of the Rector or the Principal, or by the Secretary, on a requisition specifying the object, signed by at least three members of the Court.

It shall also meet, if necessary, to hear Registration Appeals, on the first Monday following the 19th January.

The University Court holds the patronage of the Chair of Music; of the Chair of History; of the Chair of Public Health; of the Chair of Ancient History and Palæography; of the Chairs of French, German, Accounting and Business Method, Chemistry in relation to Medicine, Zoology, Bacteriology, Forestry, Clinical Medicine, Tuberculosis, Therapeutics, and Psychiatry; of the Chair of Fine Art, in conjunction with the President of the Royal Scottish Academy; and a share in the patronage of the Chair of Agriculture. It also elects three of the seven Curators of Patronage, and appoints the Lecturers, and the Additional Examiners for Degrees.

The Court consists of—1. The Rector; 2. The Principal; 3. The Lord Provost of Edinburgh for the time being; 4. An Assessor nominated by the Chancellor; 5. An Assessor nominated by the Rector; 6. An Assessor nominated by the Lord Provost, Magistrates, and Town Council of Edinburgh; 7. Four Assessors elected by the General Council; 8. Four Assessors elected by the Senatus Academicus; 9. Representatives of affiliated Colleges, under section 15 (4) of the Act of 1889 (if any).

Seven members constitute a quorum. The Rector and his Assessor continue in office for three years; but when the Chancellor or the Rector ceases to hold office, his Assessor continues to be a member of the Court until an Assessor is nominated by the new Chancellor or Rector. The other Assessors hold office for four years; and all Assessors are eligible for re-election. No Principal or Professor of any Scottish University is eligible as Assessor to any other person or body than the Senatus. The Rector, and in his absence the Principal, presides at meetings of the Court; and, in the absence of both, a chairman is elected by the meeting. The person presiding at any meeting of the Court has a deliberative vote, and also a casting vote, in case of equality.

An abstract of the proceedings of the Court in 1918-1919 is given in a subsequent part of the Calendar.

The names of the present Assessors are given on page 1. The names of the Assessors before 1888 will be found in the Historical Appendix to List of University Graduates, published in 1889 (page 105). The Assessors since 1888 will be found in the various Calendars.

UNIVERSITIES COMMITTEE OF PRIVY COUNCIL.

The Scottish Universities Committee of the Privy Council consists of the Lord President of the Privy Council, the Secretary for Scotland; the Lord Justice-General, Lord Justice-Clerk, Lord Advocate, and the Chancellor and the Lord Rector of each of the Universities, if members of the Privy Council; one member at least of the Judicial Committee of the Privy Council; and such other member or members of the Privy Council as His Majesty may appoint.

The powers and duties of this Committee may, subject to rules or regulations passed by His Majesty in Council, be exercised and discharged by any three or more of the members, one of whom shall be a member of the Judicial Committee of the Privy Council or a Senator of the College of Justice in Scotland.

CURATORS OF PATRONAGE.

By the Universities Act of 1858, the patronage of seventeen Chairs, previously in the gift of the Town Council, was transferred to seven Curators—three nominated by the University Court, and four by the Town Council. The Curators also have the patronage of the Chairs of Celtic and Education and a share in the patronage of the Chairs of Humanity, Agriculture, Civil Law, Constitutional Law and Constitutional History, Scots Law, and Conveyancing, formerly in the gift of the Town Council, and of the Chair of Political Economy. The Curators hold office for three years. The names of the present Curators are given on page 2.

REPRESENTATIVE IN GENERAL MEDICAL COUNCIL.

Under the Medical Act of 1886, the University is entitled to elect a Member of the General Medical Council, who holds office for five years. Sir William Turner was elected by the Senatus in December 1886. Under the Universities Act of 1889, the University Representative is elected by the University Court, by

whom Sir William Turner, K.C.B., M.B., D.C.L., LL.D., was elected in 1891, and re-elected in 1896 and 1901; Sir Thomas R. Fraser, M.D., LL.D., was elected in 1905, and Prof. Harvey Littlejohn in 1915.

PRINCIPAL.

The Principal, formerly elected by the Town Council, now by the Curators, holds office for life. He is the President of the Senatus Academicus; in absence of the Rector, he presides at the meetings of the University Court; and in absence of the Chancellor and Rector he presides at the Statutory Meetings of the General Council, and also at the Special Meetings, except for the election of Assessors.

PRINCIPALS ELECTED SINCE 1586.

1586 Robert Rollock, <i>previously</i> <i>Regent.</i>	1730 William Hamilton.
1599 Henry Charteris.	1732 James Smith.
1620 Patrick Sands.	1736 William Wishart, <i>secundus.</i>
1622 Robert Boyd.	1754 John Gowdie.
1623 John Adamson.	1762 William Robertson.
1653 Robert Leighton.	1793 George Husband Baird.
1662 William Colvill.	1840 John Lee.
1675 Andrew Cant.	1859 Sir David Brewster.
1685 Alexander Monro.	1868 Sir Alexander Grant, Bart.
1690 Gilbert Rule.	1885 Sir Wm. Muir, K.C.S.I.
1703 William Carstairs.	1903 Sir Wm. Turner, K.C.B.
1716 William Wishart.	1916 Sir J. ALFRED EWING, K.C.B.

SENATUS ACADEMICUS.

The Principal and the Professors constitute the Senatus. This body superintends and regulates the teaching and discipline of the University. The Senatus elects four Assessors in the University Court who hold office for four years. Two retire biennially, but may be re-elected; and in case of a casual vacancy, the person elected to fill it goes out of office when the person whom he succeeded would in the ordinary rotation have retired. The Senatus appoints two-thirds of the members of the Library and the Museums Committees, receives their reports, and, subject to the review of the University Court, confirms, modifies, or rejects such reports. It also elects

a representative in the General Assembly of the Church of Scotland; two Managers of the Royal Infirmary; two Governors of George Heriot's Trust; two Governors of Morrison's Academy, Crieff; two Governors of the Spence Bursary Trust; one Governor of Dollar Institution; and one Governor of Stiell's Hospital, Tranent. Degrees in Arts, Science, Divinity, Law, Medicine, and Music are conferred, on the recommendation of the Senatus, by either the Chancellor, the Vice-Chancellor, the Principal, or the senior Professor present. The Principal is President of the Senatus, with a deliberative and also a casting vote; and, in his absence, the Senior Professor present acts as Chairman, also with a double vote. The Ordinary Meetings of Senatus shall be held on Thursdays, 2nd October, 6th November, 4th December, 8th January, 5th February, 4th and 18th March, 6th May, 3rd June, and 1st July, at 4 P.M.

Extraordinary Meetings shall be held, when necessary, in March, on the day of the Graduation Ceremonial, at 9.30 A.M.; and in October, on the day of the Graduation Ceremonial.

Special Meetings may be arranged for at Ordinary or Extraordinary Meetings, or they may be called, for urgent or important business, by order of the Principal, or on a requisition specifying the object, signed by three Professors.

The Senatus reserve the power of changing the date and hour of a meeting, on special cause shown.

The Graduation Ceremonials shall be held in October, December, March, and July.

FACULTIES.

The University contains six Faculties, as constituted by Ordinance in 1893—viz., Arts, Science, Divinity, Law, Medicine, and Music. Each Faculty is presided over by a Dean, who is elected by the Professors of his Faculty, and who, among other duties, presents to the Chancellor or Vice-Chancellor the Graduands of his Faculty. The names of the present Deans are given on pp. 2, 3, 4, and 5. The Chairs in the various Faculties are here given in chronological order. The Faculties as previously constituted are given in the CALENDAR for 1894-95, and in previous CALENDARS.

FACULTY OF ARTS.

The Faculty of Arts embraces the Chairs of Humanity (Latin), Greek, Mathematics, Logic and Metaphysics, Moral Philosophy, Natural Philosophy, Hebrew and Semitic Languages, History, Constitutional Law and Constitutional History, Ancient History and Palaeography, Rhetoric and English Literature, Sanskrit and Comparative Philology, Commercial and Political Economy, Education, Fine Art, Celtic, French, German, Ecclesiastical History, and Accounting and Business Method.

REGENTS AND PROFESSORS IN THE FACULTY OF ARTS SINCE 1583.

Regents of Philosophy, 1583-1708.

[The Regents of Philosophy taught in rotation the four classes in the Curriculum of Arts, the "Bajans," the "Semi-Bajans," the "Bachelors," and the "Magistrands," as the Students of the first, second, third, and fourth year were respectively styled. Each Regent therefore taught every subject in the Curriculum—the Regent of Humanity being subordinate to the Regent of Philosophy, and being employed as a tutor in Classics for Unmatriculated Students. In 1703 the system was changed, and separate Professors for Latin, Greek, Logic and Metaphysics, Moral Philosophy, and Natural Philosophy, were substituted for the Regents. A Professorship of Mathematics had previously existed.]

- 1583 Robt. Rollock, *first Regent*.
- 1583 Duncan Nairn.
- 1585 Charles Lumisdaill.
- 1586 Adam Colt.
- 1586 Alexander Scrimgeour.
- 1587 Philip Heslop.
- 1588 Charles Ferme or Fairholm.
- 1589 Henry Charteris.
- 1589 Patrick Sands.
- 1594 George Robertson.
- 1597 William Craig.
- 1597 John Adamson.
- 1598 James Knox.
- 1598 Robert Scott.
- 1601 Andrew Young.
- 1603 James Reid.
- 1604 David Munro.
- 1606 Blase Colt.
- 1607 James Fairley.
- 1608 William King.
- 1611 Andrew Stevenson.
- 1625 Samuel Rutherford.

- 1625 Robert Ranken.
- 1626 Thomas Crawford.
- 1626 John Brown.
- 1631 Alexander Hepburn.
- 1636 James Wyseman.
- 1638 James Wright.
- 1638 Robert Young.
- 1639 Duncan Forrester.
- 1644 William Tweedie.
- 1644 James Pillans.
- 1647 Andrew Suttie.
- 1653 John Wishart.
- 1665 George Sinclair.
- 1666 John Wood.
- 1667 William Paterson.
- 1679 Gilbert M'Murdoch.
- 1679 Andrew Massie.
- 1680 Alexander Cockburn.
- 1682 Robert Lidderdail.
- 1684 Herbert Kennedy.
- 1686 Thomas Burnet.
- 1689 Alexander Cunningham.
- 1690 William Law.
- 1695 John Row.
- 1695 William Scott.
- 1701 Charles Areskine.
- 1703 Robert Stewart.
- 1707 Colin Drummond.

Regents of Humanity, 1597-1708.

- 1597 John Ray.
- 1606 Blase Colt.
- 1611 Oliver Colt.
- 1611 Robert Burnet.
- Andrew Stevenson.
- 1623 Samuel Rutherford.
- 1626 Thomas Craufurd.

- 1630 John Armour.
 1633 Alexander Gibson.
 1636 James Wyseman.
 1638 Robert Young.
 1644 James Pillans.
 1653 John Wishart.
 1656 William Forbes.
 1656 James M'Gowan.
 1658 Hugh Smith.
 1663 William Cumming.
 1665 Andrew Ross.
 1665 Thomas Bell.
 1676 Gilbert M'Murdoch.
 1679 Alexander Cunningham.
 1689 John Drummond.

Professors of Mathematics.

- 1620 Andrew Young.
 1640 Thomas Craufurd.
 1674 James Gregory.
 1683 David Gregory.
 1692 James Gregory.
 1725 Colin M'Laurin.
 1747 Matthew Stewart.
 1775 Dugald Stewart.
 1785 Adam Ferguson.
 1785 John Playfair.
 1805 John Leslie.
 1819 William Wallace.
 1838 Philip Kelland.
 1879 George Chrystal.
 1912 EDMUND TAYLOR WHIT-
 TAKER.

Professors of Humanity.

- 1708 Laurence Dundas.
 1728 Adam Watt.
 1734 John Kerr.
 1741 George Stuart.
 1775 John Hill.
 1806 Alexander Christison.
 1820 James Pillans.
 1863 William Young Sellar.
 1891 Harry Chester Goodhart.
 1895 William Ross Hardie.
 1919 OLIFFE LEGH RICHMOND.

Professors of Greek.

- 1708 William Scott, *one of the*
Regents.
 1729 William Scott, *secundus.*
 1730 Colin Drummond.

- 1738 Robert Law.
 1741 Robert Hunter.
 1772 Andrew Dalziel.
 1805 George Dunbar.
 1852 John Stuart Blackie.
 1882 Samuel Henry Butcher.
 1903 ALEXANDER WM. MAIR.

Professors of Logic and Metaphysics.

- 1708 Colin Drummond, *one of the*
Regents.
 1730 John Stevenson.
 1774 John Bruce.
 1786 James Finlayson.
 1808 David Ritchie.
 1836 Sir Wm. Hamilton, Bart.
 1856 Alex. Campbell Fraser.
 1891 Andrew Seth Pringle Pattison.
 1919 NORMAN KEMP SMITH.

Professors of Moral Philosophy.

- 1708 William Law, *one of the*
Regents.
 1729 William Scott.
 1734 John Pringle.
 1745 William Cleghorn.
 1754 James Balfour.
 1764 Adam Ferguson.
 1785 Dugald Stewart.
 1810 Thomas Brown.
 1820 John Wilson.
 1853 P. C. M'Dougall.
 1868 Henry Calderwood.
 1898 JAMES SETH.

Professors of Natural Philosophy.

- 1708 Sir Robert Stewart, *one of the*
Regents.
 1742 John Stewart.
 1759 Adam Ferguson.
 1764 James Russell.
 1774 John Robison.
 1805 John Playfair.
 1819 Sir John Leslie.
 1833 James David Forbes.
 1860 Peter Guthrie Tait.
 1901 James Gordon MacGregor.
 1913 CHARLES GLOVER BARKLA.

Professors of Hebrew and Semitic
Languages.

(See FACULTY OF DIVINITY.)

Professors of Ecclesiastical History.
(See FACULTY OF DIVINITY.)

Professors of Constitutional Law and Constitutional History.

(Prior to 1909, the title of this chair was "History.")

- 1719 Charles Mackie.
- 1753 John Gordon.
- 1754 William Wallace.
- 1755 John Pringle.
- 1780 Alexander Fraser Tytler.
- 1801 William Fraser Tytler.
- 1821 Sir William Hamilton.
- 1837 George Skene.
- 1842 James Frederick Ferrier.
- 1846 Cosmo Innes.
- 1874 Aeneas Jas. Geo. Mackay.
- 1881 John Kirkpatrick.
- 1909 JOHN HEPBURN MILLAR.

Professors of History.

- 1894 George W. Prothero.
- 1899 RICHARD LODGE.

Professors of Rhetoric and English Literature.

- 1762 Hugh Blair.
- 1784 William Greenfield.
- 1801 Andrew Brown.
- 1835 George Moir.
- 1840 William Spalding.
- 1845 Wm. Edmondstoune Aytoun.

- 1865 David Masson.
- 1895 George Saintsbury.
- 1915 HERBERT JOHN CLIFFORD GRIERSON.

Professors of Sanskrit.

- 1862 Theodor Aufrecht.
- 1875 Julius Eggeling.
- 1914 ARTHUR BERRIEDALE KEITH.

Professors of Political Economy.

- 1871 W. B. Hodgson.
- 1880 JOSEPH SHIELD NICHOLSON

Professors of Education.

- 1876 Simon Somerville Laurie.
- 1903 ALEXANDER DARROCH.

Professor of Fine Art.

- 1880 GERARD BALDWIN BROWN.

Professors of Celtic Languages, Etc.

- 1882 Donald Mackinnon.
- 1914 WILLIAM JOHN WATSON.

Professor of Ancient History and Palaeography.

- 1919 ROBERT KERR HANNAY.

Professor of French.

- 1918 CHARLES SAROLEA.

Professor of Accounting and Business Method.

- 1919 * * *

FACULTY OF SCIENCE.

[As Constituted in 1893 by Ordinance No. 12 (General No. 7) and added to later.]

This Faculty embraces the Chairs of Mathematics, Natural Philosophy, Botany, Anatomy, Chemistry, Physiology, Natural History, Astronomy, Agriculture, Engineering, Geology, Public Health, Bacteriology, Chemistry in relation to Medicine, Zoology, Pathology, Materia Medica, and Forestry.

PROFESSORS IN THE SUBJECTS NOW EMBRACED IN THE FACULTY.

Professors of Astronomy.

- 1786 Robert Blair.
- 1834 Thomas Henderson.

- 1846 Charles Piazza Smyth.
- 1889 Ralph Copeland.
- 1905 Frank Watson Dyson.
- 1910 RALPH ALLEN SAMPSON.

Professors of Agriculture.

- 1790 Andrew Coventry.
 1831 David Low.
 1854 John Wilson.
 1885 ROBERT WALLACE.

Professors of Engineering.

- 1868 Fleeming Jenkin.
 1885 George Frederick Armstrong.
 1901 THOMAS HUDSON BEARE.

Professors of Geology.

- 1871 Archibald Geikie.
 1882 James Geikie.
 1914 THOMAS JOHN JEHU.

Professor of Forestry.

1919

Professors of Mathematics and Natural Philosophy.

(See FACULTY OF ARTS.)

Professors of Bacteriology, Pathology, Materia Medica, Natural History, Zoology, Botany, Chemistry, Chemistry as applied to Medicine, Anatomy, Physiology, and Public Health.

(See FACULTY OF MEDICINE.)

Professor of Technology.

- 1855 George Wilson.
 [Chair abolished in 1859.]

FACULTY OF DIVINITY.

This Faculty, the second in date, consists of the Chairs of Divinity, Hebrew and Semitic Languages, Ecclesiastical History, and Biblical Criticism and Antiquities.

PROFESSORS IN THE FACULTY OF DIVINITY SINCE 1620.

Professors of Divinity.

- 1620 Andrew Ramsay.
 1627 Henry Charteris.
 1629 James Fairley.
 1630 John Sharpe.
 1648 Alexander Colvill.
 1649 Samuel Rutherford.
 1650 David Dickson.
 1662 Patrick Scougall.
 1664 William Keith.
 1675 Laurence Charteris.
 1682 John Menzies.
 1683 John Strachan.
 1690 George Campbell.
 1701 George Meldrum.
 1709 William Hamilton.
 1732 James Smith.
 1733 John Gowdie.
 1754 Robert Hamilton.
 1779 Andrew Hunter.
 1809 William Ritchie.
 1828 Thomas Chalmers.
 1844 John Lee.
 1859 Thomas J. Crawford.
 1876 Robert Flint.
 1903 WILLIAM PATERSON PATERSON.

Professors of Hebrew.

- 1642 Julius Conradus Otto.
 1656 Alexander Dickson.
 1679 Alexander Amedeus.
 1681 Alexander Douglas.
 1692 Patrick Sinclair.
 1694 Alexander Rule.
 1702 John Goodall.
 1719 James Crawford.
 1732 William Dawson.
 1751 James Robertson.
 1792 George Husband Baird.
 1793 William Moodie.
 1812 Alexander Murray.
 1813 Alexander Brunton.
 1848 David Liston.
 1880 David Laird Adams.
 1892 John Dobie.
 1895 ARCHIBALD ROBERT STIRLING KENNEDY.

Professors of Ecclesiastical History.

- 1702 John Cumming.
 1715 William Dunlop.
 1726 Matthew Crawford.
 1737 Patrick Cumming.
 1762 Robert Cumming.

- 1788 Thomas Hardie.
 1799 Hugh Meiklejohn.
 1831 David Welsh.
 1844 James Robertson.
 1861 William Stevenson.
 1872 Robert Wallace.
 1876 Malcolm Campbell Taylor.
 1908 JAMES MACKENNON.

*Professors of Biblical Criticism and
 Biblical Antiquities.*

- 1847 Robert Lee.
 1868 Arch. Hamilton Charteris.
 1898 John Patrick.
 1915 WILLIAM ALEXANDER
 CURTIS.

FACULTY OF LAW.

To this Faculty belong eight Chairs, viz. :—Public Law, Civil or Roman Law, Constitutional Law and Constitutional History, Scots Law, Forensic Medicine, Conveyancing, Political Economy, and Ancient History and Palæography.

PROFESSORS IN THE FACULTY OF LAW SINCE 1707.

Professors of Public Law.

- 1707 Charles Erskine.
 1734 William Kirkpatrick.
 1735 George Abercrombie.
 1759 Robert Bruce.
 1764 James Balfour.
 1779 Allan Macnochie.
 1796 Robert Hamilton.
 1832 * * *
 1862 James Lorimer.
 1890 Sir LUDOVIC JAMES GRANT,
 Bt.

Professors of Civil Law.

- 1710 James Craig.
 1732 Thomas Dundas.
 1745 Kenneth McKenzie.
 1755 Robert Dick.
 1792 John Wilde.
 1800 Alexander Irving.
 1827 Douglas Cheape.
 1842 A. Campbell Swinton.
 1862 James Muirhead.
 1889 Henry Goudy.
 1893 JAMES MACKINTOSH.

*Professor of Constitutional Law and
 Constitutional History.*

- 1909 JOHN HEPBURN MILLAR.
 (For previous incumbents of the
 same Chair, under its earlier title,
 "History," see FACULTY OF
 ARTS.)

Professors of Scots Law.

- 1722 Alexander Bayne.
 1737 John Erskine.
 1765 William Wallace.
 1786 David Hume.
 1822 George Joseph Bell.
 1843 John Schank More.
 1861 George Ross.
 1864 George Moir.
 1865 Norman Macpherson.
 1888 JOHN RANKINE.

Professors of Forensic Medicine.

- 1807 Andrew Duncan, *secundus*.
 1820 William Pulteney Alison.
 1822 Robert Christison.
 1832 Thomas Stewart Traill.
 1862 Sir Douglas Macdagan.
 1897 Sir Henry Duncan Littlejohn.
 1906 HARVEY LITTLEJOHN.

Professors of Conveyancing.

- 1825 Macvey Napier.
 1847 Allan Menzies.
 1856 A. Montgomerie Bell.
 1866 James Stuart Fraser Tytler.
 1892 John Philp Wood.
 1900 JOHN LITTLE MOUNSEY.

Professors of Political Economy.
(See FACULTY OF ARTS.)

*Professors of Ancient History
and Paleography.*
(See FACULTY OF ARTS.)

FACULTY OF MEDICINE.

The Faculty consists of twenty Chairs:—Botany, Physiology, Medicine, Anatomy, Chemistry, Chemistry in relation to Medicine, Midwifery, Natural History, Zoology, Materia Medica, Surgery, Clinical Surgery, Forensic Medicine, Pathology, Public Health, Bacteriology, Clinical Medicine, Tuberculosis, Therapeutics, and Psychiatry. The Professors of Medicine and Therapeutics are also Professors of Clinical Medicine. Some of these Chairs were instituted in the seventeenth century, but it does not appear that the Medical School and Faculty of the University were established until the beginning of the eighteenth century.

PROFESSORS IN THE FACULTY OF MEDICINE SINCE 1676.

Professors of Botany.

- 1676 James Sutherland.
- 1706 Charles Preston.
- 1712 George Preston.

Professors of Medicine and Botany.

- 1738 Charles Alston.
- 1761 John Hope.
- 1786 Daniel Rutherford.
- 1820 Robert Graham.
- 1845 John Hutton Balfour.

Professors of Botany.

- 1879 Alexander Dickson.
- 1888 ISAAC BAYLEY BALFOUR.

Professors of Medicine.

- 1685 { Sir Robert Sibbald.
- { James Halket.
- { Archibald Pitcairne.

Professors of Institutes of Medicine or Physiology.

- 1724 William Porterfield.
- 1726 { Andrew St Clair.
- { John Rutherford.
- 1747 Robert Whytt.
- 1766 William Cullen.
- 1773 Alex. Monro Drummond.
- 1776 James Gregory.

- 1789 Andrew Duncan.
- 1819 Andrew Duncan, *secundus*.
- 1821 William Pulteney Alison.
- 1842 Allen Thomson.
- 1848 John Hughes Bennett.
- 1874 William Rutherford.
- 1899 Sir EDWARD SHARPEY
SCHAFFER.

Professors of Medicine.

- 1724 William Porterfield.
- 1726 { Andrew St Clair.
- { John Rutherford.
- 1747 Robert Whytt.
- 1766 John Gregory.
- 1773 William Cullen.
- 1790 James Gregory.
- 1821 James Home.
- 1842 William Pulteney Alison.
- 1855 Thomas Laycock.
- 1876 Sir Thomas Grainger Stewart.
- 1900 John Wyllie.
- 1915 GEORGE LOVELL GULLAND.

Professors of Anatomy.

- 1705 Robert Elliot.
- 1708 Adam Drummond.
- 1716 John McGill.
- 1720 Alexander Monro.
- 1754 Alexander Monro, *secundus*.
- 1798 Alexander Monro, *tertius*.

- 1846 John Goodsir.
 1867 Sir William Turner.
 1903 Daniel John Cunningham.
 1909 ARTHUR ROBINSON.

*Professors of Chemistry and
 Medicine.*

- 1713 James Crawford.
 1726 Andrew Plummer.
 1726 John Innes.
 1755 William Cullen.
 1766 Joseph Black.
 1795 Thomas Charles Hope.

Professors of Chemistry.

- 1844 William Gregory.
 1858 Lyon Playfair.
 1869 Alexander Crum Brown.
 1908 JAMES WALKER.

*Professor of Chemistry in relation
 to Medicine.*

- 1919 GEORGE BARGER.

Professors of Midwifery.

- 1726 Joseph Gibson.
 1739 Robert Smith.
 1756 Thomas Young.
 1780 Alexander Hamilton.
 1800 James Hamilton.
 1840 Sir J. Y. Simpson, Bart.
 1870 [Sir] Alex. Russell Simpson.
 1905 Sir JOHN HALLIDAY CROOM.

Professors of Natural History.

- 1770 Robert Ramsay.
 1779 John Walker.
 1804 Robert Jameson.
 1854 Edward Forbes.
 1855 George James Allman.
 1870 Sir Wyv. T. C. Thomson.
 1882 JAMES COSSAR EWART.

Professors of Materia Medica.

- 1768 Francis Home. ●
 1798 James Home.
 1821 Andrew Duncan, *secundus*.
 1832 Sir Robert Christison, Bart.
 1877 Sir Thomas Richard Fraser.
 1918 ARTH. ROBERTSON CUSHNY.

Professors of Surgery.

- 1777 Alexander Monro, *secundus*.
 1798 Alexander Monro, *tertius*.

- 1831 John William Turner.
 1836 Sir Charles Bell.
 1842 James Miller.
 1864 James Spence.
 1882 John Chiene.
 1909 ALEXIS THOMSON.

Professors of Clinical Surgery.

- 1803 James Russell.
 1833 James Syme.
 1869 Joseph Lister.
 1877 Thomas Annandale.
 1908 Francis M. Caird.
 1919 Sir HAROLD J. STILES.

Professors of Forensic Medicine.

(See FACULTY OF LAW.)

Professors of Pathology.

- 1831 John Thomson.
 1842 William Henderson.
 1869 W. R. Sanders.
 1881 William Smith Greenfield.
 1912 JAMES LORRAIN SMITH.

Professors of Military Surgery.

- 1806 John Thomson.
 1823 Sir George Ballingall.
 [Chair abolished.]

Professor of Public Health.

- 1898 CHAS. HUNTER STEWART.

Professor of Bacteriology.

- 1913 JAMES RITCHIE.

Professor of Clinical Medicine.

- 1913 William Russell.
 1919 FRANCIS DARBY BOYD.

Professor of Tuberculosis.

- 1917 Sir ROBERT W. PHILIP.

Professor of Therapeutics.

- 1919 JONATHAN MEAKINS.

Professor of Psychiatry.

- 1919

Professor of Zoology.

- 1919

FACULTY OF MUSIC.*Reid Professors of Music.*

1839 John Thomson.

1841 Sir Henry Rowley Bishop.

1844 Henry Hugh Pearson.

1845 John Donaldson.

1865 Sir Herbert Stanley Oakeley.

1891 Frederick Niecks.

1914 DONALD FRANCIS TOVEY.

The Principal is a member of this Faculty *ex Officio*, and Professor Walker was appointed a member by the Senatus.

GIFFORD LECTURERS IN NATURAL THEOLOGY.

(LECTURESHIP INSTITUTED 1887.)

1888 James Hutchison Stirling, LL.D.

1890 Professor Sir George G. Stokes, Bart. (Cambridge).

1892 Professor Otto Pfeiderer (Berlin).

1894 Emeritus-Professor Campbell Fraser.

1896 Professor C. B. Tiele (Leyden).

1899 Professor William James (Harvard).

1903 Professor H. M. Gwatkin (Cambridge).

1905 Emeritus-Professor Simon S. Laurie.

1907 Emeritus-Professor Robert Flint (no lectures delivered)

1909 W. Warde Fowler, M.A. (Oxford).

1911 Bernard Bosanquet, LL.D.

1913 Professor Henri Bergson (Paris).

1915 Emeritus-Professor Sir Wm. M. Ramsay.

1918 Professor G. F. STOUT (St Andrews).

GUNNING LECTURERS IN THE FACULTY OF DIVINITY.

(LECTURESHIP INSTITUTED 1889.)

1893 Rev. Adam Milroy, D.D.

1896 Rev. Hugh Macmillan, D.D., LL.D.

1899 Rev. John M. Robertson, D.D.

1904 Rev. John Morrison, D.D.

1910 Rev. David Watson, D.D.

1913 Rev. Bruce M'Ewen, M.A., B.D., D.Phil.

1916 Rev. COLIN CAMPBELL, D.D.

MUNRO LECTURERS IN ANTHROPOLOGY AND PREHISTORIC ARCHÆOLOGY.

(LECTURESHIP INSTITUTED 1900.)

1911 Robert Munro, M.D.

1912 Professor James Geikie.

1913 David G. Hogarth, M.A.

1915 George Macdonald, M.A., LL.D.

1916 * * *

GENERAL COUNCIL OF THE UNIVERSITY.

The General Council consists of the Chancellor, the Members of the University Court, the Professors, and the Graduates of the University. The fee for registration is £1.

The Register, now containing 13,095 Members, is conclusive of the rights of persons to be Members up to 1st January 1920. By the Universities Elections Amendment (Scotland) Act all candidates for graduation must pay the Registration Fee before they can appear for graduation.

Under the Universities Act of 1858, and the Commissioners' Ordinance No. 1, section 3, the Council meets twice a year—viz., on the *first Wednesday of May* and on the *last Friday in October*, at half-past three o'clock P.M., "to take into their consideration all questions affecting the well-being and prosperity of the University, and to make representations from time to time on such questions to the University Court, who shall consider the same, and return to the Council their deliverance thereon." All proposed improvements in the arrangements of the University "shall be submitted to the University Council for their consideration."

By the Universities Act, 1889, besides the two statutory meetings above mentioned, the Council "may hold special meetings at the instance of the Chancellor, who shall convene such meetings on a requisition from a quorum of members, and the Council may adjourn any meeting, and may appoint Committees to investigate into and report upon any matter remitted to them or to carry out instructions given to them by the Council." The Commissioners under this Act have fixed the quorum of the General Council at ten for every thousand or fraction of a thousand of members on the register, but this provision does not apply to the statutory half-yearly meetings, or to adjourned meetings.

The General Council recommends that, in the case of an Election of Assessors by the Council, the names and designations of persons to be proposed for the office, together with the names and designations of the proposers and seconders of such persons, shall be intimated to the Secretary at least ten days before the meeting of the Council at which the election takes place.

At the meetings of the General Council, in the absence of the Chancellor, Rector, and Principal, the Chancellor's Assessor, and

in his absence the Rector's Assessor shall preside; and in the absence of all of these, a Chairman shall be elected by the meeting, but no member of Senatus can preside at any meeting held for the election of an Assessor or Assessors. The Chairman shall decide all points of order, and has a deliberative and a casting vote; and in case of an equality of votes at the conclusion of a poll, the Chairman, or any one appointed by the University Court to act for him, shall have a casting vote.

The General Councils of the four Scottish Universities, St Andrews, Glasgow, Aberdeen, and Edinburgh, together return three Members of Parliament.

The *Chancellor* of the University and *four of the Assessors* in the University Court are elected by the Council. The Chancellor holds office for life, and the Assessors for four years. Two of the Assessors retire biennially, but may be re-elected. In case of a casual vacancy the person elected to fill it retires when the person whom he succeeded would in ordinary rotation have retired. No member of the Senatus can vote or take part in the election of any Assessor of the General Council. The next election of two Assessors will take place at the statutory half-yearly meeting in *October* 1919.

Members of the General Council may borrow books from the Library and have out at one time five volumes on payment of an annual fee of 10s. 6d., or a single payment of £5; or may have ten volumes on payment of an annual fee of £1, 1s., or a single payment of £10.

Two Standing Committees are appointed by the General Council—viz., a Business Committee and a Finance Committee. The Conveners are:

Business Committee—Alexander Morgan, M.A., D.Sc.

Finance Committee—Thomas J. Millar, M.A., LL.B., C.A.

STUDENTS' REPRESENTATIVE COUNCIL.

Presidents—J. M'Gilchrist, M.A. (Senior), J. O. Murray, and J. G. Lyon Brown; *Hon. Secretary*—D. L. M. Tod, M.A., B.Sc.; *Hon. Treasurer*—D. Gordon Robertson; *Hon. Assist. Secretary*—J. K. Murray; *Hon. Auditor*—James Walker, C.A., LL.D.

The Students' Representative Council was founded in 1884. Its functions are—(1) To represent the Students in matters

affecting their interests; (2) To afford a recognised means of communication between the Students and the University authorities; and (3) To promote social life and academic unity among the Students. The Council is elected annually in November. The Ordinary Meetings are held in November, December, January, February, March, May, June, July, and October. At the November meeting an executive committee is elected, consisting of the office-bearers, three members elected by Council, and the Conveners of all Committees. The Council also carries out its work by means of the following Standing Committees:—Finance, Inter-Universities, Library, Amusements, *Student*, International Academic, and Women's Committees. It publishes the University Magazine (*The Student*) weekly during the Winter Session, and occasionally during the Summer.

The Commissioners, acting under the Universities Act, 1889, have issued an Ordinance to the following effect:—

- (1) The Students' Representative Council shall submit to the University Court the regulations under which it exists, and these regulations as approved shall form the constitution of the Students' Representative Council.
- (2) After the University Court has approved of the constitution, alterations must receive the approval of the University Court.
- (3) 1. The Council may petition the Senatus as to any matter affecting the teaching and discipline of the University, and the Senatus shall dispose of the matter or shall, if so prayed, forward such petition to the University Court, with such observations as it may make thereon.
2. The Council may petition the University Court as to any matter affecting the Students other than those falling under Sub-section 1.
3. This Section shall not prejudice any right of appeal under Section 6, Sub-section 2, of the said Act, nor the powers and jurisdiction of the Senatus, as to teaching and discipline.

DISCIPLINE.

Students are subject to the disciplinary jurisdiction of the Senatus. Among offences visited with severe academic penalties may be mentioned riotous or disorderly conduct, copying at examinations, and mutilating or disfiguring books belonging to the Library.

GRADUATION CEREMONIALS—PRECEDENCE, &c.

The relative precedence of each Faculty is as follows:—1. Divinity; 2. Law; 3. Medicine; 4. Arts; 5. Science; 6. Music. The Deans take precedence in their respective Faculties, followed by the Members of their Faculties in the order of the dates of their Commissions.

Public Graduation Ceremonials are held annually about the end of March (chiefly for Divinity, Law, Science, and Music), in July (two Ceremonials—one chiefly for Arts, and the other for Medicine and Science), in October (for Arts, etc.), and in December (for Medicine, etc.).

Graduates must appear on these occasions in Academic Costume.

ACADEMIC COSTUME.

NOTE.—Graduates are requested to appear for Graduation wearing one hood only—viz., the one which indicates the Degree they are about to receive.

Chancellor.—Robe of Black Brocaded Satin, trimmed with Gold Lace, and with Gold Frogs down fronts and on sleeves. Black Silk Velvet Trencher, with Gold Button and Tassel.

Vice-Chancellor.—Robe and Trencher same as Chancellor's, but trimmed with Silver in place of Gold.

Rector.—Black Silk Gown, with Crimson Silk Velvet Sleeves. The gown is trimmed round the collar and down the front edges with Broad Gold Lace, and the sleeves round bottom with a narrower Gold Lace. Black Silk Velvet Trencher, with Gold Button and Tassel.

Principal.—Mauve Corded Silk Robe trimmed with Velvet to match. Black Silk Velvet Trencher, with Gold Button and Tassel.

Members of University Court.—Black Silk Robe, open sleeve with Gold Frog on each sleeve.

With all of the above, Hoods appropriate to the Degree are worn.

The ordinary form of Gowns worn by Graduates of the University is the same in all the Faculties—viz., black silk or stuff, with long sleeves. The distinctive part of the costume is in the *Hood* appropriated to each Faculty. These Hoods are as follow :

L.L.D.—Black *cloth*, with appended cape, lined with *blue* silk.

L.L.B.—Black *silk*, lined with *blue* silk, bordered with *white* fur.

B.L.—Black *silk*, edged with *blue* silk three inches broad, trimmed with *white* fur.

D.D.—Black *cloth*, lined with *purple* silk.

B.D.—Black *silk*, lined with *purple* silk, bordered with *white* fur.

M.D.—Black *cloth*, with appended cape, lined and faced with *crimson* silk.

Ch.M.—Black *velvet*, lined with *golden* silk.

M.B. and Ch.B.—Black *silk*, lined with *crimson* silk, bordered with *white* fur.

D.Sc.—Black *cloth*, lined with *green* silk.

B.Sc.—Black *silk*, lined with *green* silk, bordered with *white* fur.

M.A.—Black *silk*, lined with *white* silk.

D.Litt.—Black *cloth*, lined with *royal blue* and *maize shot* silk.

D.Phil.—Black *cloth*, lined with *Vesuvius* and *white shot* silk.

Mus.D.—Rich scarlet *cloth*, with rich *white* corded silk lining.

Mus.B. — Scarlet *silk*, with *white* silk lining, edged with *white* fur.

Ed.B.—Black *silk*, lined with *pale blue* silk, edged with *white* fur.

B.Com.—Black *silk*, lined with *pale primrose yellow* silk, edged with *white* fur.

The full Academic Dress for Doctors is a Gown of superfine Scarlet Cloth, loose sleeves, the cape and facings down the front covered, and the sleeves lined, with rich silk of the colour proper to the Degree. Birretum of black silk velvet.

SPONSIO ACADEMICA FOR M.A., ETC.

Nos qui Nomina subsignamus Magisterii titulo jamjam donandi Spondemus nos in omni debitae gratitudinis officio erga Universitatem Academicam Edinburgensem ad extremum vitae hialtum perseveraturos.

SPONSIO ACADEMICA FOR GRADUATES IN MEDICINE.

Ego Doctoratus in Arte Medica titulo jam donandus, sancte coram Deo cordium scrutatore, spondeo, me in omni grati animi officio erga Universitatem Academicam Edinburgensem ad extremum vitae halitum perseveraturum.

Tum porro Artem Medicam caute, caste, prob eque exercitatum, et quoad potero, omnia ad ægrotorum corporum salutem conducentia cum fide procuraturum. Quæ, denique, inter medendum visa vel audita sileri conveniat, non sine gravi causa vulgaturum.

Ita præsens spondenti adsit Numen.

REGULATIONS OF THE UNIVERSITY COURT.

I. REGULATIONS AS TO THE PERFORMANCE OF THE DUTIES OF PROFESSORS, UNIVERSITY LECTURERS, UNIVERSITY ASSISTANTS AND EXAMINERS, DURING THEIR TEMPORARY ABSENCE OR DISABILITY.

(a) Professors.

1. When a Professor is prevented from teaching his Class for more than three successive days, an arrangement shall be made for his Class being taught during his absence; and such arrangement shall be intimated to, and be subject to the approval of, his Faculty, or, in the case of an emergency, the Dean of his Faculty.

2. No arrangement for teaching a Class in the absence of the Professor shall continue longer than one week without the sanction of the Senatus Academicus ; or, if there be no sufficiently early meeting of the Senatus, without the *interim* sanction of the Faculty, or of the Principal and Deans Committee.

3. If the absence is likely to extend to four weeks or upwards, the sanction of the Senatus shall require the confirmation of the University Court. The statement of the arrangement for teaching a Class in the absence of a Professor, submitted by the Senatus to the University Court, shall specify the remuneration proposed to be given to the Professor's Substitute, which shall be subject to revision by the University Court.

4. The remuneration as fixed by the Court shall be paid by the Professor to his Substitute, unless the Court shall, in any particular case, decide that special circumstances make it equitable to relax the rule, and to pay part of the remuneration out of the remaining revenue (if any) of the University for the year, as defined in Section XI., 8, of Ordinance No. 27 [Edinburgh, No. 6].

5. No Professor shall employ any one other than a Colleague or University Lecturer or University Assistant to teach his Class for him, without obtaining the sanction of his Faculty or, in the case of an emergency, the Dean of his Faculty ; and such sanction shall be communicated to the Senatus at its first meeting thereafter.

(b) University Lecturers.

1. When a Lecturer is prevented from performing the work of his office for more than three successive days, he shall arrange for its performance during his absence ; and the arrangement made by him shall be intimated to, and be subject to the approval of, either the Head of his Department, or the Dean of his Faculty, as the case may require.

2. No such arrangement shall continue longer than one week without the sanction of the Senatus Academicus ; or, if there be no sufficiently early meeting of Senatus, without the *interim* sanction of the Faculty, or of the Principal and Deans Committee.

3. If the absence is likely to extend to four weeks or upwards, the sanction of the Senatus shall require the confirmation of the University Court. The statement of the arrangement submitted

by the Senatus to the Court shall suggest, for the consideration of the Court, the amount of remuneration to be given to the Substitute.

4. The remuneration of the Substitute, as fixed by the Court, shall be charged to the Lecturer, unless the Court shall, in any particular case, decide that special circumstances make it equitable to relax the rule, and to pay a part, or the whole, of the remuneration out of the remaining revenue (if any) of the University for the year, as defined in Sect. XI., 8, of Ordinance No. 27 [Edinburgh, No. 6].

(c) University Assistants.

1. When an Assistant is prevented from performing the work of his office for more than three successive days, an arrangement shall be made, subject to the approval of the Head of his Department, for its performance during his absence.

2. No such arrangement shall continue longer than one week without the sanction of the Dean of the Faculty to which such Assistant belongs.

3. If the absence is likely to extend to four weeks or upwards, the sanction of the Senatus Academicus shall also be required. When the arrangement involves the payment of remuneration to a Substitute, a suggestion as to amount shall be submitted by the Senatus to the University Court.

4. The remuneration of the Substitute, as fixed by the Court, shall be charged to the Assistant, unless the Court shall, in any particular case, decide that special circumstances make it equitable to relax the rule, and to pay a part, or the whole of the remuneration out of the remaining revenue (if any) of the University for the year, as defined in Section XI., 8, of Ordinance No. 27 [Edinburgh, No. 6].

(d) Examiners.

1. Any University Examiner who finds himself prevented from being present at any Examination at which it is his duty to act, shall intimate this to the Dean or other Chairman of his Examining Board, who, on receiving such intimation, or otherwise

becoming aware of the absence of the Examiner, shall, if possible, appoint a properly qualified Substitute to act for such Examiner.

2. In every case in which a person is appointed to act as Substitute for a University Examiner, and in which his Faculty, or Examining Committee, shall consider it necessary that the Substitute shall receive remuneration, the rate of remuneration to be paid by the Examiner (whether a Professor or Additional Examiner) to his Substitute shall be fixed by the Faculty, or Examining Committee, and shall be based upon the amount of the Fees payable to the Additional Examiners attached to the Faculty or Examining Committee.

3. All absences of University Examiners, their duration and cause, and the relative arrangements made, shall be immediately reported for approval to the Senatus Academicus, by the Chairman of the Board to which the absent Examiner is attached; and a similar Report shall, in every case of the absence of a University Examiner, be made by the Senatus Academicus to the University Court; provided always that such arrangements shall receive immediate effect when circumstances do not permit the previous approval of the Senatus Academicus to be obtained.

4. In every case in which a Professor shall apply for leave of absence from his duties generally, provision shall be made, under the existing Regulations regarding leave of absence to Professors, for the performance of his duties as Examiner, as well as for the performance of his duties as Teacher; and provision shall be made for the remuneration of his Substitute in both capacities.

II. APPLICATIONS FOR ADDITIONAL (OR NON-PROFESSORIAL) EXAMINERSHIPS IN THE UNIVERSITY.

1. Applicants should lodge twenty copies of their applications (one of which should be signed), and twenty copies of any testimonials they may desire to present, with the Secretary of the Court, not later than one week before the day fixed for making appointments in each case.

2. Applicants who send in testimonials must not send more than four for any one appointment.

3. Persons may be appointed to examine in two of the thirteen Subjects of the Examinations for Graduation in Medicine, but not

more, and not in more than one Subject in any one Division of the Examinations.

4. Every applicant for an appointment in Divinity must hold the degree of B.D. from a Scottish University.

Every applicant for an Examinership in Law must be a Bachelor of Laws of a Scottish University.

III. OPENING OF NEW CLASSES.

No class in addition to those existing in the University shall at any time be opened,—whether for the purpose of dividing the course on a subject necessary for graduation, or for teaching a class not requisite for graduation,—without the approval of the Senatus and the sanction of the University Court.

IV. REGULATIONS AS TO THE RECOGNITION OF COURSES OF INSTRUCTION GIVEN BY EXTRA-ACADEMICAL TEACHERS AS QUALIFYING FOR GRADUATION IN MEDICINE.

1. Every applicant for recognition shall furnish for the information of the Authorities of the University :—

- (1.) A Statement of his Registered Qualification or Qualifications, and of the name of the Office, or Appointment (if any) which he holds, as a Teacher of the Subject in which he requests recognition.
- (2.) A Syllabus of his Course of Lectures ; or, in the case of a Practical Class, information of a similar kind.
- (3.) A Statement of the number of Lectures, and of the number of Written or Oral Examinations, in the Course ; or, in the case of a Practical Class, information of a similar kind.
- (4.) A Short Description of his Accommodation for a Class ; and of the Apparatus, Illustrative Specimens, Diagrams, and other appliances, at his disposal, for teaching the Subject in which he desires recognition ; also the arrangements for teaching women.
- (5.) A Statement of his opportunities of studying the Subject, and of the length of time devoted thereto.
- (6.) A Statement of the experience he has had in teaching the Subject.

- (7.) A Note of the Titles of his published Contributions to the Science of the Subject.
- (8.) A Statement as to whether his Course or Courses of Instruction have been already recognised by any University or other examining body, and, if so, what means were adopted for ascertaining his qualifications for teaching.

2. In the case of every Applicant for recognition residing in Edinburgh or its neighbourhood, an inspection shall be made of his teaching Appliances and Accommodation for teaching.

3. Every recognised Extra-Academical Teacher shall annually furnish the University with the information regarding his Course or Courses which is required from the University Professors as to (1.) The number of Students attending the recognised Course or Courses of Instruction ; (2.) The number of meetings for ordinary Class Work in the Session, and in each week thereof ; (3.) The number of Special Written Examinations ; (4.) The system of conducting the ordinary Class Work, and the number of meetings devoted to each kind of work ; also the arrangements for teaching women.

4. The Certificate of Attendance granted to Students by recognised Extra-Academical Teachers, should, in all cases, state the duration of the Course and the number of Meetings for Systematic, Tutorial, and Practical Instruction, respectively ; the number of occasions on which attendance was ascertained, and the number of those occasions on which the Student was present ; and the number of Class Examinations held during the Course, and whether or not the Student has taken a satisfactory part in the work of the Course, including the Class Examinations, if any. The Certificate should also state the general scope of the Course ; and, in particular, in the case of Chemistry, that the Course included Organic as well as Inorganic Chemistry ; in the case of Midwifery, that it included the diseases of Women and Children ; and, in the case of Practical Materia Medica, that it included Pharmacognosy, Pharmacy, Dispensing, and the writing of Prescriptions.

5. In the event of an Extra-Academical Teacher removing from the premises or building occupied by him for teaching a recognised Course, such Teacher shall be required to intimate his

removal to the University Court, in order that the Court may have an opportunity of considering whether the Accommodation in the building to which he has removed is adapted for the purpose of teaching the Subject in which he is recognised.

6. When application is made for the recognition of a Course taught by two or more Teachers in conjunction, information shall be given of the share to be taken by each Teacher in such conjoined Course; and the recognition of such conjoined Courses, and of each of the persons recognised as Teachers of a conjoined Course shall, *ipso facto*, terminate should one or more of the Teachers cease to conduct the Course, or should any material change be made in the share of each Teacher in the teaching of the conjoined Course.

7. The recognition of any Teacher who fails to furnish the information called for in Section 3, or an explanation relative to such failure, or who has ceased for the period of two consecutive Sessions to teach the subject on which he is recognised, shall, *ipso facto*, terminate.

V. REGULATIONS AS TO ASSISTANTS TO LECTURERS.

1. The University Court may from time to time, after consultation with the Senatus, appoint an Assistant or Assistants to any Lecturer who does not hold office as a Junior Lecturer or as an Assistant to a Professor.

2. The duties of each Assistant appointed in terms of these Regulations shall be defined from time to time by the Lecturer, with the approval of the Senatus, obtained through the relative Board of Studies and Faculty.

3. Each Assistant may be appointed by the University Court, on the recommendation of the Lecturer whom he is to assist. The appointment shall be for one year, but shall be renewable from time to time for the like period on the like recommendation.

4. An Assistant shall not be dismissed during the period of his appointment, except by the University Court.

5. All Assistants appointed as hereinbefore provided shall be styled University Assistants, Tutors, or Demonstrators, as the University Court may determine. They shall be Officers of the

University, and shall have such use of the Library and such other privileges as the University Court may from time to time determine.

6. Assistants appointed in terms of these Regulations shall be eligible as Junior Lecturers, and *vice versa*, and both offices may be held at the same time by the same person.

7. Nothing in these Regulations shall prevent a Lecturer, as defined in No. 1 hereof, who has been appointed on the footing that his remuneration depends in whole or in part on the amount of the fees drawn for his Class, from employing at his own expense such private Assistants as he may think necessary, but such private Assistants shall not take part in the public work of the Class without the permission of the University Court, and the foregoing provisions shall not apply to such private Assistants, nor to others not directly assisting the Lecturer in the work of the Class.

UNIVERSITY BUILDINGS.

THE University Buildings at present consist of: The College, or University (Old) Building, with Dome, in South Bridge Street; The New Buildings (School of Medicine), and the M'Ewan Hall, Teviot Place; The Music Class Room, Park Place; The John Usher Institute of Public Health, Warrender Park Road; The Engineering and Natural Philosophy Departments, Infirmary Street; The Departments of Agriculture, Forestry, and Entomology, George Square; The Department of Mathematics, Chambers Street; The University Union, Park Place.

THE UNIVERSITY (OLD) BUILDING.

The Old Building, on the site of "Kirk o' Field," the scene of the murder of Darnley, contains the Library and Reading Rooms; the Class Rooms of the Faculties of Arts, Divinity, and Law, the Natural History, and some other Science Class Rooms; the Theological Library and Reading Room; the Examination Rooms; the Geological and Petrological Laboratories; the Geological, Fine Art, and Natural History Museums; the Senate Hall, University Court Room, and the Offices of the Senatus, the Court, and the Students' Representative Council.

The work of teaching began in 1583, but until the end of the eighteenth century, the professors and students were very imperfectly housed. In a Memorial, dated 1768, Principal Robertson complains that the buildings, "poor in themselves, seem not to have been carried on according to any regular plan, such as takes place in other academical structures which have been erected on more opulent foundations; and hence the whole fabric has a mean, irregular, and contemptible appearance." At that time the number of students was between six and seven hundred, and that of professors twenty-one.

Twenty years later a writer in the *Scots Magazine* complains that "in 1788 the buildings of the University are in the same ruinous condition that they were in in 1768, and the most celebrated University at present in Europe is the worst accommodated." A scheme for rebuilding, often discussed, was now taken up seriously by the Town Council, encouraged by promise of liberal aid from Government. A plan was obtained from Robert Adam, then at the height of his reputation, and the foundation stone of "the New College of Edinburgh" was solemnly laid on 16th November 1789.

Adam's original plans, preserved in the Soane Museum in London, divide the space now occupied by the College buildings into two quadrangles, a smaller to the east, entered as now from South Bridge Street, and a larger beyond it to the west, with a block of academic buildings lying between. This arrangement was doubtless suggested by the rapid rise of the ground from north-east to south-west. Round these two courts there were to be Class Rooms, Museums, a Library, and also houses for the Principal and Professors. The western side of the larger court was to be occupied by a Graduation Hall and Chapel; and the great quadrangle was to be flanked with corridors, affording communication between the class-rooms. The building, begun chiefly on the eastern and northern sides, was, however, soon stopped by the death of the architect in 1792, and by failure of funds. In 1815 a Government Commission was appointed to collect funds and to carry out the undertaking, though in a modified form. They invited plans "for finishing the College of Edinburgh, on a reduced scale, leaving out the south front, and the cross building, which formed the small court in the original plan—regard being always had to the part already executed, and to the preservation of the architecture of Mr Adam, as far as practicable." Out of nine sets of plans sent in, those of William Henry Playfair were selected, and under his superintendence the work was practically completed in 1828, at a total cost of about £161,000.

The general character of the whole design is due to Robert Adam. Some portions were erected by him, or completed after his death from his drawings. In other parts some modification of his plans and elevations was necessary, while a third portion had to be designed anew by Playfair, who was careful to conform

to Mr Adam's design. The handsome eastern façade, with its monolithic columns 22 feet in height, was erected by Adam, who intended to have embellished it with a certain amount of sculpture. He also erected the north-west corner of the great court, of which the circular Loggie form an admired feature, carried out part of the north side, and began the western block. Playfair threw the two courts into one, and designed the north and south interior elevations anew. In the western block he adhered to Adam's designs; but the interior treatment of the block, fitted up for the Natural History Museums, is his own; and the "Upper Museum," now the Natural History Laboratory, is a good specimen of his style. The "circular corners" designed by Adam for his great court were retained by Playfair for his single quadrangle. On the exterior, the north front is Adam's, and its plainness is due to the fact that only a narrow lane instead of the broad Chambers Street then bounded the College on that side. Adam's handsome design for the south front was simplified by Playfair, but is still superior to the north elevation.

The difficulty of the levels in the quadrangle was satisfactorily overcome by Playfair by surrounding the court with a terrace, which affords a suitable architectural base for the noble buildings rising above it. But Playfair's great achievement is the Upper Library, a fine gallery 185 feet by 54 feet, with an arched ceiling enriched with cassettes.

The general effect of the buildings is simple and dignified. The material is mainly Craigleith stone, and the detail carving is well worked out. The single quadrangle, measuring 242 feet 6 inches from east to west, by 134 feet from north to south, is a great improvement on the original plan of 1789, though the essentials of the design are due to Adam. The interior elevations of the quadrangle, especially on the west, and the eastern front to South Bridge Street, may safely be pronounced excellent specimens of the neo-classic style.

The Dome.

Adam's original design provided for a Dome over the eastern portal, but as his sketch was not very pleasing, no steps were taken to carry out this feature until 1883, when funds came into the possession of the University, bequeathed for this purpose by Robert Cox, Esq., W.S. It was then determined to carry out

the building of the Dome from a new design by Sir R. Rowand Anderson, LL.D., Architect of the University New Buildings (School of Medicine). The present Dome, though less purely classical than the Adam-Playfair building, is pleasing and effective. An admirable finial is formed by a vigorous and athletic figure of Youth, bearing the torch of Knowledge, executed in bronze by John Hutchison, Esq., R.S.A. The Dome now contains the Fine Art Museum.

THE UNIVERSITY NEW BUILDINGS.

(SCHOOL OF MEDICINE.)

In 1869 the number of students had risen to fifteen hundred, and that of Professors to thirty-three, while there were seventeen Class Rooms only for their use. An Extension Committee was therefore formed in 1873, and an appeal was made to the public for subscriptions for the purchase of a site for and the erection of complete Class Rooms, Theatres, Laboratories, and Museums for the Faculty of Medicine ; for reorganising the Class Rooms in the Old Building for the Faculties of Arts, Divinity, and Law ; for providing better accommodation for the Library ; for erecting a Hall for examinations and academic ceremonials ; and for improving the north front of the College building.

This appeal to the public yielded a sum of £148,548, 2s. 5d., which, with a grant of £80,000 from Government, and interest, rents, etc., amounted to £244,587, 4s. 8d.

These buildings (the University New Buildings), begun in 1878, were partly opened for teaching purposes in October 1880, and, after their completion, were transferred by the Committee to the University in October 1888. They are situated on a site formerly covered by Teviot Row, Park Street, and Park Place, and were designed by Sir R. Rowand Anderson, LL.D., Architect, and completed under his supervision.

They contain the Lecture and Practical Rooms, etc., of the Faculty of Medicine (excepting those of Physics, Botany, Natural History, and Public Health), the Museums of Practice of Physic, Anatomy, Chemistry, Obstetrics, Materia Medica, and Surgery ; a Students' Reading Room, Students' Common Room, Faculty of Medicine Reception and Reading Rooms, and Office of the Faculty.

The style of architecture is Italian of the Cinque-Cento period,

intermediate between the Gothic and the stiff Palladian work which aims at a mere manipulation of the five orders. The main frontage presents a slightly projecting elevation, pierced by the archway which forms the principal entrance. Over the arch is an ornate window, flanked by pilasters, between which are niches for statuary; and the whole is surmounted by a bold semi-circular pediment, intended to be occupied by sculpture. The façade is three storeys in height except in the projecting west wing, which has an additional floor. On the ground floor the windows are square. Above these runs a well-marked string-course ornamented with dentils. The first-floor windows are round-headed and furnished with architraves. Next comes a broad frieze relieved at intervals with circular panels. Over this the string-course is repeated; and the upper-floor windows are separated by pilasters, and divided by shafts supporting circular tracery. The wall is finished at the top with architrave, frieze, and cornice, and crowned with a low-pitched roof. The external features have of course been influenced by the internal arrangements.

The Hughes Bennett Physiology Laboratory was erected in 1901 by Mrs Cox of Gorgie, at a cost of £2800, in memory of her father, the late John Hughes Bennett, M.D., Professor of Physiology in the University, 1848-1874. It is in direct connection with the other Physiology Laboratories, and consists of a large laboratory equipped with the most modern appliances for practical work, a small theatre for demonstrations of experiments which the students cannot perform individually, and a room used for the demonstration of microscopic specimens. Since the erection of the Hughes Bennett Laboratory, an important extension of the accommodation required for Physiology has been made by the addition of a new Lecture-room, that formerly in use having been converted into a Laboratory for the individual practical work of the students.

THE M'EWAN HALL.

In 1885, the Acting Committee for the University of Edinburgh Buildings Extension Scheme resolved to apply to Parliament for power to acquire property adjoining the University as a site for a University Hall. Certain members of the Committee were incorporated as Trustees for this purpose, and one of their number, Mr William M'Ewan, M.P., munificently offered to contribute the sum

required for the erection of the Hall, on condition that the cost of the site was provided from other sources. A Parliamentary grant of £8000 was obtained, and Mr M'Ewan having generously provided the balance required, the site was purchased. The erection of the "M'Ewan Hall," so named by the Senatus Academicus in grateful recognition of the Donor, was begun in 1888 and finished in 1897, from the designs and under the superintendence of Sir R. Rowand Anderson, LL.D. The total cost of the Hall, including the extensive scheme of mural painting executed by Mr William M. Palin, and the Grand Electric Organ, was about £115,000, and as an architectural monument it is not excelled by any Academic building in the country.

The Hall is of theatre form, and the external elevation conforms to the architectural style of the early Italian Renaissance adopted in the other University New Buildings. It is capable of holding upwards of 2600 people, and is used for Academic Ceremonials, Concerts of a high-class, and other functions approved by the University Court.

THE JOHN USHER INSTITUTE OF PUBLIC HEALTH.

Following upon the foundation of the Chair of Public Health, it was found that the accommodation available in the University Buildings for the thorough teaching of the subject and for investigation was totally insufficient. Sir John Usher, Bart., who had contributed largely to the endowment of the Chair, offered to provide such a sum as might be necessary to build and equip laboratories and class rooms in connection therewith, on condition that the University should provide the site. A site was secured in Warrender Park Road, and the building was erected from plans prepared by Messrs Leadbetter & Fairley, architects, and completed under their supervision at a cost of over £21,000. The exterior, in its architectural features, shows a treatment of the Classic Renaissance detail. The interior is equipped with the most modern appliances for teaching and research work in Bacteriology and Chemistry. The Institute, which was formally handed over to the University by Sir John Usher in June 1902, has been named, in grateful acknowledgment of his munificent gift, "The John Usher Institute of Public Health."

THE ENGINEERING DEPARTMENT.

The new block of buildings for the Engineering Department at High School Yards was completed in the winter session 1905-6. The block of buildings is T-shaped. On the ground-floor of the west front are provided, in addition to the entrance hall, a laboratory for the testing of materials and a hydraulics laboratory. In connection with the hydraulics laboratory, a water tower was constructed at the south-east angle of the building. The floor above these two laboratories is devoted mainly to a laboratory for experimental mechanics, to a class-room, which is used for advanced classes, and there is also a reading-room attached to the departmental library. The rest of the space on this floor is devoted to rooms for the staff, lavatories, etc. The back block of the building is also divided into two floors: the lower floor forms the lecture theatre of the department, and the upper floor, which has been arranged to have only north lights, forms a large drawing office. An extensive workshop has been provided by roofing in and connecting to the main building a site at the north-east corner lying between the front and back blocks of the main building. A full account of these new buildings was published as an Appendix to the CALENDAR of 1906-7.

THE NATURAL PHILOSOPHY DEPARTMENT.

The Natural Philosophy building, which was completed in 1907, was originally the Old Surgical Hospital, and in the transformation to which the hospital has been subjected, it has been found possible to preserve the outer walls almost without change.

The building has three storeys, an annex, and a tower. The principal floor contains two lecture theatres, with preparation room adjoining, the apparatus room, class rooms for tutorial work and practical physics, a library and reading room, assistants' rooms, and the professor's consultation room and laboratory. The upper floor is devoted to students' laboratories, and contains a large junior laboratory, a suite of rooms for more advanced work of different kinds, and a research room for the assistant in charge. The ground floor contains the rooms of the applied mathematics department, a workshop, an accumulator room, and a number

of research rooms so designed as to secure as great freedom as possible from vibration and from variable magnetic conditions. The tower has been used to furnish a well for a lift, and a shaft for experiments requiring considerable height, while it also gives access to a space on the roof for experiments in the open air. The annex will be available for future extension.

REID SCHOOL OF MUSIC.

The School of Music, situated immediately to the south-east of the University New Buildings, was built in 1858, from the designs of the late David Cousin. It contains the Music Class Room, with an organ of four manuals and sixty-six stops, in a handsome carved oak case ; and a Museum of interesting acoustic and antique musical instruments.

The architecture of the building is in the Italian Renaissance style of the early part of the sixteenth century.

DEPARTMENTS OF AGRICULTURE, FORESTRY, AND ENTOMOLOGY.

The growing importance of Agriculture, Forestry, and Entomology as University subjects, and the increasing attendance at these classes, have necessitated the making of larger and more suitable provision for their teaching ; and, to meet present-day requirements, a new building has been erected in George Square. The building, which has been treated after the Classic manner, occupies a site near the centre of the north side of the Square, and presents a handsome frontage of about 100 feet in length.

The Forestry Department is accommodated on the basement and ground floors, space being provided on the former for a Machine Room, Tool Rooms, Laboratory, Apparatus Room, and Museum ; while on the latter there are a Class Room capable of seating 200 students, Museums, a Laboratory, and a Students' Reading Room.

Agriculture and Entomology are provided for on the upper floor of the building, and for these subjects there are a Class Room, similar in size to that for Forestry, Laboratories for Practical and Research Work, a Museum, and a Reading Room, as on the floor below.

In connection with this extension, the University gratefully acknowledges the generous assistance given by the Development Commissioners towards the provision required for Forestry.

DEPARTMENT OF MATHEMATICS, Etc.

The building, No. 16 Chambers Street, formerly belonging to the Edinburgh Provincial Committee for the Training of Teachers, having been acquired by the University, is now occupied by the Department of Mathematics; and in this way additional accommodation has been gained in the old buildings for other departments.

UNIVERSITY UNION.

This building, which occupies the site in Park Place, close to the M'Ewan Hall, is held by trustees for the members. Its institution dates from the year 1884, when the Students' Representative Council started the movement. An influential "General Union Committee" was appointed, who succeeded in raising the sum of £15,000. With this amount the original buildings of the Union were erected. In 1900, however, an extension was found necessary, and this has been carried out by instalments, the last having been completed in 1906. Part of the extension occupies the site of the famous "Ross House," referred to by Sir Walter Scott in *Redgauntlet*. The extension entailed an additional expenditure of £26,000, thus raising the total cost to £41,000. The original buildings, which are Scottish Baronial in style, were designed by Messrs Sydney Mitchell & Wilson, architects, and the extension was planned by them in keeping therewith. The exterior is treated with large mullioned windows, which form a marked feature of the building. See APPENDIX.

UNIVERSITY LIBRARY.

Library Committee.

The Library Committee consists of not more than seven members, not being members of the Senatus, appointed by the University Court, and of such number appointed by the Senatus as shall be double the number appointed by the Court. The Committee is charged with the superintendence of the Library, and of any libraries acquired, or to be acquired, for the use of the University. The members of the Committee are appointed by the University Court and the Senatus respectively at their first meeting in the Winter Session.

Principal Sir J. ALFRED EWING, K.C.B., etc., etc.,	} <i>Joint</i>
GEORGE MACDONALD, LL.D.		} Chairmen.

Lord Abercromby ; Professor Barkla ; Professor Baldwin Brown ; W. K. Dickson, LL.D. ; Professor Ewart ; Sir P. Hamilton Grierson, Advocate ; Professor Grierson ; John Harrison, LL.D. ; Professor James Mackinnon ; Professor Mair ; Professor Sir R. W. Philip ; Professor Robinson ; Professor Sarolea ; Professor Sir E. Sharpey Schafer ; Professor Tovey ; John A. Trail, LL.D. ; James Walker, C.A., LL.D. ; Professor Whittaker.

In 1580 Mr Clement Littil or Little left his books to "Edinbvrgh and Kirk of God thair to reman." This collection of about 300 volumes, chiefly theological (see list in *Miscellany of the Maitland Club*, vol. i., 1834), was transferred by the Town Council to the University, and became the nucleus of the University Library.

The celebrated Poet, Drummond of Hawthornden, bequeathed his library to the University in 1627—a valuable gift, both from

the eminence of the donor, and the rare specimens of early literature it embraces (see *Auctarium Bibliothecæ Edinburgens.* 1627).

Among noteworthy donors are Principal Adamson ; Dr Robert Johnston, a physician in London ; the Rev. James Nairne of Wemyss, in Fife ; Dr John Stevenson, Professor of Logic and Metaphysics in the University ; and Dr William Thomson, Professor of Anatomy in the University of Oxford. In 1872, Mr J. O. Halliwell (afterwards Halliwell-Phillipps), the eminent Shakespearean critic, presented his very valuable collection of works relating to Shakespeare. In 1875 a large collection of Persian and Arabic MSS. was presented by Mr J. B. Baillie of Leys ; in 1879 an extensive collection of MSS. was received from the executors of David Laing, LL.D. ; in 1880 the works on Economic Science collected by Professor Hodgson were presented by Mrs Hodgson ; in 1882 valuable works on Sanskrit Literature were presented by the family of Dr John Muir ; and in 1886 Mr Thomas Stratton bequeathed 110 works bearing on the study of Celtic. In 1889 Sir William Mackinnon, Balinakill, purchased the books of Dr Cameron of Brodick, an eminent Celtic scholar, for £600, for presentation to the University ; and the same year the Library received a valuable collection of MS. Shakespeariana from Dr Halliwell-Phillipps, and a number of books belonging to the late Professor Wilson, from Mrs Wilson. A *Lorimer Collection*, in memory of the late Professor Lorimer, was presented by his son-in-law, Sir David P. Chalmers. In 1895 Professor Blackie left to the Library his collection of modern Greek books ; and important additions were received from the Goodsir bequest, and from Major Sprot, as representative of the late Dr Cleghorn of Stravithie. In 1898 Sir William Fraser left a very handsome legacy to the Library, putting it for the first time since the General Reid Bequest ceased to be separately administered, in possession of funds of its own.

An interesting and valuable addition was made to the Library in 1910 by the United Service Club, London, who consigned the Library of the late Professor Dugald Stewart to the custody of the University. The Library consists of about 4000 volumes in various departments of Literature.

In 1911 the late Sheriff Æneas J. G. Mackay, at one time Professor of Constitutional History in the University, bequeathed the main portion of his library to the Senatus Academicus for the

use of the students of history and English literature. After the Professors of History and English Literature had made a selection of books suitable for their departmental libraries, about 1000 volumes of this collection were added to the General Library.

The Library now contains about 300,000 printed volumes, and about 8000 MSS., many of which are of great value.

The General Library, with the Reading Rooms connected with it, occupies the south side of the quadrangle (Old Buildings).

In 1895 the following Library Regulations were laid down by Ordinance (No. 64):—

I.

II.

III. All books ordered for the Library by the Library Committee shall be sent direct to the Librarian, and all books received by him shall be forthwith catalogued by him in such manner as the Library Committee may direct, and stamped with the Library stamp; and no person shall be allowed to use or borrow any book until it has been entered in the catalogue and stamped.

IV. The Librarian shall, with the approval of the Library Committee, from time to time prepare a list of such books, manuscripts, and other works as cannot, in consequence of any deed of gift or otherwise, be lent out of the Library; and the Library Committee shall from time to time make such regulations as they shall think expedient for allowing access to such works for consultation.

V. Manuscripts, rare books, works of reference, and such other works as the Library Committee shall determine, shall not be lent out of the Library, except under regulations to be made by the Library Committee and approved by the Senatus Academicus and the University Court; and, in addition to such general regulations, the Library Committee may, in each individual case of borrowing such works, impose such special conditions as they may think necessary or expedient: Provided always that every such special permission and all such additional conditions imposed by the Library Committee shall be entered in the Minute-Book of the Committee.

VI. It shall be in the power of the Librarian at any time to withdraw any work from circulation, subject to appeal to the Library Committee.

VII. It shall be in the power of the University Court, after consultation with the Senatus Academicus, and on the report of the Library Committee, to sell or exchange such works as they consider it in the best interests of the Library to dispose of.

VIII. A general inspection of the Library shall take place at such times and during such periods as the University Court, on the report of the Library Committee, shall determine, and all works whatsoever, and by whomsoever borrowed, shall be returned to the Library before the commencement of such periods, under a penalty previously fixed and publicly notified by the University Court.

IX. The Library Committee shall frame regulations to be approved by the University Court, under which the persons hereinafter mentioned may respectively borrow or consult books. Such regulations shall prescribe, *inter alia*, (a) the number of books which the said persons shall be entitled to borrow; (b) the period for which they shall be allowed to retain them; (c) the penalties to be imposed in the event of their failure to return books in due time, or in the event of books being lost or injured.

The persons entitled to borrow books shall be:—

1. Members of the Senatus Academicus and University Lecturers.
2. University Assistants and Examiners.
3. The Librarian and Assistant Librarians.
4. Matriculated Students.
5. Extra-academical Teachers, recognised by the University Court, in the town in which the University is situated.
6. Students enrolled in any Scottish University as attending the lectures of extra-academical teachers in the town in which the University is situated, and who are already entitled by Ordinance to the use of the Library.
7. Persons who have retired or who shall hereafter retire from the office of Principal or Professor.
8. Members of the University Court.
9. Members of the General Council.

Provided that no member of the University Court or of the General Council shall be entitled to obtain from the University Library books required by the Teachers or Students of the University in the prosecution of academic work and research, and that it shall be in the discretion of the Librarian, subject to appeal to the Library Committee, to decide from time to time what books are so required.

In fixing the number of books to be borrowed by the afore-mentioned persons respectively, due regard shall be had to the preferable claims of those engaged in teaching and studying in the University.

X. Members of the General Council shall be required, as a condition of exercising the privilege of borrowing books, to pay such subscription as the University Court shall fix from time to time.

XI. The University Court shall determine what sum, if any, shall be deposited by those entitled to borrow books.

XII. The Library Committee, with the approval of the University Court, may admit to the use of the Library, upon such conditions as to subscription and otherwise as they may require, members of the General Council of other Scottish Universities and Graduates of the University who, by reason of being under the age of twenty-one years, are not qualified to be members of the General Council.

XIII. It shall be in the power of the Library Committee from time to time to grant the use of the Library to such extent and on such conditions as they shall think expedient to persons who may not be members of the University, for purposes of literary research, and the names of those privileged readers shall be reported annually to the University Court.

XIV. So long as any Library subscription or any fine incurred remains unpaid, and so long as any person continues in possession of a book which he is not entitled to retain, the right of the defaulter to the use of the Library shall be suspended and remain in abeyance.

XV. The Library Committee shall, in an annual report to the Senatus Academicus, furnish information as to :

1. The state in which the borrowing registers are kept, and whether there is in use any finding list or other means for facilitating the recall of books.
2. The condition of the various catalogues, whether they are brought up to date or not ; the amount of arrears, if any, of the cataloguing of the titles of current acquisitions ; and what portions of the Library, if any, remain uncatalogued.
3. The amount of money spent in the purchase of books and periodicals respectively, and how the expenditure has been distributed among the several departments of literature and science.

XVI. At such time as shall be fixed by the Senatus Academicus the Librarian shall report to the Senatus in reference to the year then ended :

1. The particulars of every case of admission to special reading privileges.
2. The particulars of every case in which the right to the use of the Library has been suspended or is in abeyance.
3. Every case in which a book belonging to the Library has been replaced at the expense of a borrower.
4. The titles of all books belonging to the Library, known to have been lost or seriously injured, or found at the time of inspection to be amissing.
5. The titles of all books entered as missing in previous reports which have been recovered.
6. The number of accessions to the Library acquired by purchase and received in donation respectively.
7. Any other matter which the Librarian may think it of importance to bring under the notice of the Senatus Academicus, or which he may be directed by the Library Committee to report.

The Senatus Academicus shall forward the report to the University Court.

XVII. Ordinances numbered 68 and 89 of the Commissioners under the Universities (Scotland) Act, 1858, are hereby repealed, provided that the regulations therein contained shall continue to be in force in each University until new regulations have been framed by the Library Committee, and approved by the University Court under the provisions of this Ordinance.

Supplementary Regulations under Ordinance 64, XVII.

I. The Library is open on Mondays, Tuesdays, Wednesdays, Thursdays, and Fridays, from 10 A.M. to 4 P.M. during the three terms; from 10 A.M. to 3 P.M. during Vacation-time, between terms; and on Saturdays from 10 A.M. to 1 P.M. throughout the year, with the following exceptions:—

From 15th Dec. to 8th Jan. (inclusive), and during the month of August, the Library is open on the above-mentioned days (exclusive of Saturdays) from 10 A.M. to 1 P.M. only.

The Library is closed on Saturdays during the Christmas Vacation, between the Spring Graduation and the opening of the Summer Term, and in the month of August; on Victoria Day and the preceding day, Christmas Day, New Year's Day, Good Friday, and the Edinburgh Autumn Holiday; and (except for the return of books) during the Annual Inspection (see Regulation IX.).

II. Members of the under-mentioned classes of readers may borrow from the Library and have out at one time, respectively the number of books specified below, but no larger number (except as provided in Regulation VII.):

Members of Senatus and University Lecturers—25 vols.

Former Principals and Professors, Members of the University Court and the Library Committee, University Assistants, University Examiners, and the Librarian—10 vols.

Members of the General Council of any Scottish University, and extra-academical teachers recognized by the University, on an annual payment of 10s. 6d., or a single payment of £5—5 vols.: on an annual payment of £1, 1s., or a single payment of £10—10 vols.

Assistant-Librarians and Clerks in University Offices (being of age)—5 vols.

III. No person shall be allowed to borrow books in more than one capacity.

IV. Subject to the provision as to the return of books before the Annual Inspection (Regulation X.), every member of the classes mentioned in Regulation II. is entitled to retain a book for one month: but this period may be prolonged until the time of the

Annual Inspection, if the book is not otherwise required under Regulation VI. Provided that the Librarian may recall a book at any time, if required for class purposes.

V. Every Matriculated Student and every Student enrolled as attending an extra-academical teacher in Edinburgh (under Ord. No. 16, Edinburgh, No. 1, Sect. viii., Sub-sect. 5) may borrow and have out at one time three volumes, but not more, and may retain any book for two weeks; but this period may be prolonged, with the permission of the Librarian, if the book is not otherwise required under Regulation VI. Provided that every such Student, before borrowing a book for the first time, shall exhibit his Matriculation Ticket, and one Class Ticket, and deposit £1 at the Matriculation Office (which deposit is returned when he ceases to use the Library); after which his name will be enrolled in the Library Books. Provided also that the Librarian may recall a book at any time, if required for Class purposes.

VI. When a borrower has had a book out for a period (as determined by Regulations IV. and V.) of one month or two weeks, as the case may be, the Librarian may recall such book, if required by another person. If the book so recalled be not returned on or before the day specified on the notice of recall, the borrower shall be liable to a fine of one shilling per volume; and to a further fine of sixpence per volume for every subsequent day so long as the book is not returned, until the total amount of the fine is equal to the sum for which the book can be replaced. Provided that, in the case of students, only half the above-mentioned fines shall be required, until the total amount is equal to the value of the book.

VII. In exceptional cases, the Library Committee may increase the number of books allowed by Regulations II. and V., or extend the periods fixed by Regulations IV. and V.; provided that in every such case the additional number or period be specified, and entered in the Committee's minutes, and that the Committee may attach to the permission such conditions as it may deem advisable.

VIII. No book shall be given out except to the borrower in person, or to some one having written authority from him; nor without the presentation of a Library Ticket, or a written request,

signed by the borrower : and all books borrowed shall be entered immediately, with the date of borrowing, in the ledger or ledgers kept for the purpose.

IX. A General Inspection of the Library shall take place annually during the first week of October, and shall last for one week. During this period the Library shall be closed, except for the return of books.

X. All books, except as provided for by Regulation XI., must be returned to the Library before the commencement of the General Inspection, under a penalty of one shilling for every volume not returned. Notice of each book not so returned shall be sent forthwith by the Librarian to the borrower, requiring its return before the close of the Inspection ; and if the book or books so required be not returned on or before that date, the borrower shall be liable to a fine of sixpence a day for each volume, so long as it is not returned, until the total amount of the fine is equal to the sum for which the book can be replaced. Provided that, in the case of students, only half the above fines shall be required, until the total amount is equal to the value of the book.

XI. In exceptional cases, the Library Committee may, before the commencement of the General Inspection, and on the written application of the borrower, give permission to keep out a book or books over one period of Inspection only, provided that the borrower sign a fresh ticket for them.

XII. All books returned to the Library, if not sent by rail or post, must be delivered, at the Library counter, to one of the Library Staff ; and a receipt for books so returned shall be given if required.

XIII. Unbound numbers of periodicals shall remain for consultation in the Library during the first month after publication ; they may then be borrowed, but shall not be retained longer than fourteen days without the special permission of the Librarian.

XIV. Manuscripts, books, and other works contemplated under Ordinance 64, Section iv., are divided into two classes. Those in class (a) may be consulted with the permission of the Librarian, who shall report such permission to the Library

Committee at their next meeting; those in class (b) may not be consulted without the leave of the Library Committee previously obtained. Works included in either class shall be consulted only in such parts of the Library as the Librarian shall determine

XV. Manuscripts, books, and other works contemplated under Ordinance 64, Section v., are divided into two classes, viz.: (a) works of reference, (b) manuscripts and other works. Works comprised in class (a) may be lent out by the Librarian from the hour of closing to the next hour of opening (except during the Annual Inspection), subject to a penalty of two shillings a day per volume if not returned. Manuscripts and other works comprised in class (b) may be lent out by permission of the Library Committee only, subject to such conditions as the Committee may in each case determine. Provided that, in urgent cases, such works (not being manuscripts) may be provisionally lent out by the Librarian and two members of the Library Committee, subject to the approval of the Committee at their next meeting, and to such conditions as the Committee may in each case determine.

XVI. All fines shall be collected by the Librarian, and paid over by him to the Factor of the University. A report of names and amounts shall be made annually by the Librarian to the Library Committee. No fine shall in any case be remitted, except by order of the Library Committee, on sufficient cause shown.

XVII. No books or papers not belonging to the University shall be stored within the Library Building, without the special permission of the Library Committee.

XVIII. The use of matches or open lights, in any part of the Library Building, is strictly prohibited.

XIX. No persons except the Library Staff, not being actual or former members of the Senatus, University Lecturers, members of the University Court or of the Library Committee, or persons having permission under Regulation XIV., are allowed to enter or remain in any part of the Library Building beyond the counter, except in the company of the Librarian or an Assistant-Librarian; unless by special permission of the Library

Committee, or (in urgent cases) of the Librarian and two members of the Committee, subject to the approval of the Committee at their next meeting.

XX. The Librarian shall report to the Library Committee, as soon as possible, all cases in which a book has been mutilated, disfigured by writing, or otherwise injured while in the possession of readers; and offenders may be required to replace the injured book, or may be fined to an amount not exceeding the value of the book, or deprived of the privilege of using the Library, at the discretion of the Committee.

N.B.—The word "book," in the foregoing regulations, is to be taken as including manuscripts, pamphlets, bound or unbound periodicals, and other written or printed matter being the property of the University Library.

READING-ROOMS.

I. Old Buildings.

A separate collection of books is set apart for the use of Students.

Those wishing to consult books must insert in one of the slips provided for the purpose their Matriculation Number, Name and Residence, and the title of the Book, and present the slip to the Librarian in attendance.

Each slip will render the person who has signed it responsible for the book named. The counterfoil of the slip should, therefore, be reclaimed from the Librarian when the Book is returned, or whenever the Book applied for is not available.

Every volume must be returned by the borrower before leaving the Reading-Room. Students are forbidden to leave the Books on the table: they are required to hand them to the Librarian, and to get back the counterfoils. To prevent confusion, this should be done a few minutes before the close of each hour by those about to attend classes.

Besides the books in the Reading-Room, each Student may consult in the Reading-Room two volumes daily from the General Library: Provided he has handed in slips applying for

them on the previous day, before 2 P.M. To such books the same rules will apply as to those consulted from the Reading-Room.

No conversation or noise is permitted in the Reading-Room.

The Librarian is responsible for the management of the Reading-Room. Any difficulty that may arise must be referred to him, or, if necessary, through him, to the Library Committee.

Students, on first applying for books in the Reading-Room, must exhibit their Matriculation Tickets.

All books taken into the Reading-Room from the General Library shall be examined and returned to their place in the General Library each day. No books shall be issued from the General Library, for use in the Reading-Room, within the last half-hour previous to closing; and all books from the General Library shall be given up in the Reading-Room a quarter of an hour before the close.

The Reading-Room is available for either men or women Students. It is open daily, holidays excepted, during the three terms, from 10 A.M. to 4 P.M., and from 7 to 9 P.M.; during vacation time, between terms, from 10 A.M. to 3 P.M.; Saturdays, 10 A.M. to 1 P.M.; during the month of August, from 10 A.M. to 1 P.M. (exclusive of Saturdays).

A special Reading-Room is set apart for Women Students.

II. New Buildings, Teviot Place.

In the New Buildings is a Students' Reading-Room containing Books of Reference for those attending the Classes in the Faculty of Medicine. The Regulations as to consulting Books are similar to those in the Reading-Room in the Old Buildings. It is open daily, Academic holidays excepted, during the three terms, from 10 A.M. to 4 P.M., and from 7 to 9 P.M.; during Vacation-time between terms, from 10 A.M. to 3 P.M.; Saturdays, 10 A.M. to 1 P.M. It is closed during August and the Christmas Vacation, and on Saturdays during September.

THEOLOGICAL LIBRARY.

This Library, founded in 1698 for Students in Theology, contains above 10,000 volumes. The management is vested in six Curators, chosen by ballot by the "Cives" of the Library from their own number. Students of Divinity of this or other Scottish

University are admitted as Cives on paying: the former, two shillings and sixpence; the latter, five shillings, per annum. No one who, when a Student of Divinity in this University, failed to enter as a Cives, may afterwards do so until he has paid up the arrears of two shillings and sixpence for each year of his Theological Course in which he failed to pay. No Cives can be elected a Curator unless at least in the second year of his attendance at the Divinity Hall. The election takes place in the second week of December, one-third of the Curators going out annually by rotation. The Curators elect one of their own number to be Treasurer. The Curators and Treasurer report the state of the funds, etc., to the Cives, the Theological Faculty, and the Senatus. The books purchased are selected by the Curators, subject to the approval of the Faculty of Divinity. The Professor of Divinity, who is *ex officio* Honorary Librarian, annually appoints an acting Librarian. Books may not be kept out of the Library longer than two months.

SELLAR AND GOODHART CLASSICAL LIBRARY.

This Library was instituted by private subscription in October 1897, in memory of Professors Sellar and Goodhart. It is used as a Reading-Room and Library of Reference for Students reading for Honours in Classics. It contains nearly 1000 volumes, and is managed by a Committee consisting of the Professors of Greek and Latin, the Assistants to the Professors, and five representatives elected by the Members. Subscription for year, 6s.; for Autumn and Spring Terms, together, 5s.; for Summer Term, 3s.

HONOURS PHILOSOPHICAL LIBRARY.

This Library was instituted by private subscription in January 1897. It is used both as a Lending Library and as a Library of Reference for Honours Students; and is managed by a Committee consisting of the Professors of Logic and Moral Philosophy, the Assistants to the Professors, and two representatives elected by the Honours Classes. Deposit, 10s.; Graduate subscription, 5s. There are also Class Libraries in connection with the ordinary classes of Logic and Moral Philosophy.

HISTORY LIBRARY.

This Library was founded in 1891 by Professor Kirkpatrick, and has since been extended by a donation of £100 from the late Professor Tiele of Leyden, Gifford Lecturer in 1896-98, in 1908 by the bequest of £1000, made by a sister of the founder, and by the bequest in 1911 of the greater part of the library of the late Mr Aeneas J. G. Mackay, K.C., sometime Sheriff of Fife and Kinross. The Library is intended mainly for the use of Honours Students in the British, European, Constitutional, Scottish History, and Political Science Classes. The room (formerly the Associated Societies' Hall) is open as a Reading-Room daily (during term) from 9 A.M. to 6 P.M., except Saturdays, when it is closed at 1 P.M. There is no subscription, but a deposit of 5s. is required. The Library is under the management of a Committee, consisting of the Professor of History, the Professor of Constitutional Law and Constitutional History, the Professor of Ancient (Scottish) History and Palæography, and the Lecturer in History (Convener). There is also a student-committee.

PHYSIOLOGY LIBRARY.

The late William Rutherford, M.D., Professor of Physiology or the Institutes of Medicine in the University from 1874 to 1899, bequeathed to the Senatus Academicus all his books and periodicals relating to Physiology and allied subjects, on condition that they should be deposited in the Physiological department of the University in charge of the Professor of Physiology.

It was resolved to continue the periodicals and to add to the Library by donation or otherwise as opportunity might occur. The books have been placed in a suitable room in the department of Physiology, which is used as a Library of Reference and Reading-Room for those who are engaged in Research work in Physiology: and the books may be consulted at any time on application to the Professor or to one of the assistants in the department who have special charge of the Library.

ASTRONOMY LIBRARY.

A sum of about £300 was subscribed in order to perpetuate the memory of the late Mr Andrew J. Ramsay, for the formation

and endowment of a Library in the Royal Observatory for the use of Students attending the class of Astronomy.

HONOURS MODERN LANGUAGES LIBRARY AND READING-ROOM

The French section of this Library was founded in 1900 by private subscriptions, and has since been kept up mainly by the Library Committee. For the German section a sum of £500 was given by Miss T. S. S. Gibson in 1901. The Reading-Room, furnished partly from private subscriptions, was opened in November 1901. The Library and Reading-Room are under the management of the Lecturers in Modern Languages and the Librarians appointed by them. Subscription for year, 6s. ; for Autumn and Spring Terms, together, 5s. ; for Summer Term, 3s.

NATURAL PHILOSOPHY LIBRARY.

The Natural Philosophy Library, including collections of books which formerly belonged to the late Professor Tait and Mr A. B. Shand, and presented by Mrs Tait and the parents of Mr Shand respectively, is used as a Reference Library by members of the Ordinary Class, and as a Lending and a Reference Library by members of Honours and Senior Laboratory Classes.

GEOLOGY CLASS LIBRARY.

The Geology Class Library includes a large collection of books presented chiefly by Sir Archibald Geikie and Professor James Geikie, by whom the Library was founded. It is used as a Reference and Lending Library by members of advanced courses in the Geological Department.

ENGINEERING LIBRARY.

The Engineering Departmental Library, which includes the Transactions of a large number of the leading Engineering Societies in Great Britain and America, is housed in the new Engineering buildings, and is available as a Reference Library for Engineering students.

MUSIC LIBRARY.

This Library of music and books on music owes its existence to bequests, donations, and especially the Reid Fund. Professor John Thomson, Théophile Bucher, and the Scottish Musical Society may be mentioned as, next to General Reid, the chief benefactors. It is used as a Reference Library and Reading-Room, its management being in the hands of the Professor of Music.

PORTRAITS AND BUSTS IN THE SENATE HALL, LIBRARY, COURT ROOM, ETC.

In order to honour and perpetuate the names of Benefactors who have founded Scholarships, Bursaries, or new Chairs in the University, the University authorities have made arrangements for placing their Busts or Portraits in the Library and University Court Room.

I. Portraits.

IN SENATE HALL.

1. Robert Rollock, first Principal of the University (1585-1599).
2. Robert Leighton, Principal of the University (1653-1662).
3. Andrew Cant, Principal of the University (1675-1685).
4. William Carstares, D.D., Principal of the University (1703-1716), by Aikman.
5. William Robertson, D.D., Principal of the University (1762-1793), by Raeburn.
6. Adam Ferguson, LL.D., Professor of Moral Philosophy (1764-1785), by Raeburn.
7. Andrew Dalziel, M.A., Prof. of Greek (1772-1805), after Raeburn.
8. John Robison, LL.D., Professor of Natural Philosophy (1774-1805), by Raeburn.
9. John Playfair, M.A., Professor of Mathematics, and afterwards of Natural Philosophy (1789-1819), by Raeburn.
10. Andrew Duncan, M.D., Senior Professor of Institutes of Medicine (1789-1819).
11. George Husband Baird, D.D., Principal (1793-1840), after Geddes.
12. Sir John Leslie, Professor of Natural Philosophy (1819-1833), after Sir David Wilkie.
13. John Donaldson, Professor of Music (1845-1865).
14. John Knox (1505-1572).
15. George Buchanan (1506-1582). Two Portraits.
16. John Napier of Merchiston, inventor of Logarithms (1550-1617).
17. Hugh Blair, D.D., Professor of Rhetoric (1762-1784), by Martin.
18. Robert Graham, M.D., Professor of Botany (1820-1845), by Colvin Smith.

19. J. H. Balfour, M.D., Professor of Botany (1845-1878), by Sir Daniel Macnee.
20. Dr Chas. Murchison, presented by Murchison Memorial Committee.
21. Dr Alexander Monro (*tertius*), by Sir J. Watson Gordon.
22. James Lorimer, M.A., LL.D., Dr Jur., Professor of Public Law (1862-1890), by John H. Lorimer, R.S.A.
23. Joseph Black, M.D., Professor of Chemistry and Medicine (1766-1795).
24. Lord Playfair, Professor of Chemistry (1858-1865).
25. Principal Sir William Turner, K.C.B., etc., by Sir James Guthrie, P.R.S.A.
26. Rt. Hon. Arthur James Balfour, M.P., D.C.L., etc., Chancellor of the University, by Sir George Reid.

IN COURT ROOM.

1. Sir David Baxter of Kilmaron, Bart., by Sir John Watson Gordon.
2. J. Stewart Hepburn, Esq., of Colquhalzie, by Colvin Smith.
3. Sir John M'Pherson, late Governor-General of India, after Reynolds.
4. George Heriot, after the original in Heriot's Hospital.
5. W. Patrick, Esq., of Roughwood, after Colvin Smith.
6. George Parker Bidder, Esq., by Alfred Dever.
7. The Rt. Hon. John Inglis, Lord Justice-General, by Sir J. W. Gordon.
8. Sir William Fettes, Bart., after Raeburn.
9. Lord Provost Elder, by Raeburn.
10. Daniel Ellis, Esq., by Colvin Smith.
11. Captain Thomas Drummond, by Pickersgill.
12. Sir Roderick Impey Murchison, Bart., by Pickersgill.
13. John Muir, LL.D., D.C.L., by John H. Lorimer.
14. Andrew Vans Dunlop, by John H. Lorimer.
15. Mrs M. S. Tyndall Bruce, by Sir Francis Grant (1888), presented by Mr Andrew H. Tyndall Bruce.
16. General Sir Joseph Straton.
17. John Wyllie, C.B., M.D., Physician General, Madras Army.
18. Miss Eleanor A. Ormerod, LL.D.
19. John Bruce, Professor of Logic and Metaphysics (1774-1786), after Raeburn.
20. Henry G. Watson, R.A.
21. Sir Donald Currie, G.C.M.G., by W. W. Ouless, R.A.

IN LIBRARY.

1. John Lee, D.D., LL.D., M.D., Principal of the University (1840-1859), by Sir John Watson Gordon.
2. Alexander Brunton, D.D., Prof. of Hebrew and Oriental Languages (1813-1848), by Sir John Watson Gordon.
3. John Wilson, Professor of Moral Philosophy (1820-1853), by Scott Lauder.
4. Nicolson Bain, University Librarian, by William Dyce, R.A., presented by his daughters.
5. James Thomson, Poet (1700-1748).
6. David Hume, by Lady Abercromby.
7. Professor Tiele, Gifford Lecturer (1896-1899).
8. John Locke.
9. General John Reid, Founder of the Chair of Music (1735-1803).

10. Sir William Fraser.
11. David, Earl of Buchan.
12. Right Hon. Lord Lister, Professor of Clinical Surgery (1869-1877),
by John H. Lorimer.
13. John Stuart Blackie, Professor of Greek (1852-1882).

IN PRINCIPAL'S ROOM.

1. Donald Ross, M.A., F.R.S.E.
2. William Prout, M.D.

IN SENATE HALL VESTIBULE.

1. Alexander Campbell Fraser, D.C.L., LL.D., Litt.D., by Sir George Reid.
2. Thomas Brown, M.D., Professor of Moral Philosophy (1810-1820), by
George Watson, P.R.S.A.

IN MIDWIFERY RETIRING ROOM.

Sir James Young Simpson, Bart., M.D., D.C.L., Professor of Midwifery (1840-1870).

IN MUSIC CLASS ROOM.

1. Sir Herbert S. Oakeley, Mus.D., LL.D., by Chas. K. Robertson.
2. General John Reid, Founder of the Chair of Music (1735-1803).

IN PSYCHOLOGY DEPARTMENT.

1. George Combe.
2. Andrew Combe.

II. Busts.

IN LIBRARY.

1. John Lee, D.D., LL.D., M.D., Principal, etc., by Slater.
2. Alexander Monro (*primus*), M.D., Professor of Anatomy (1720-1754),
by Flaxman.
3. Wm. Cullen, M.D., Prof. of Chemistry (1755-1790), by Gowans.
4. John Playfair, M.A., Professor of Mathematics, and afterwards of
Natural Philosophy (1785-1819), by Chantrey.
5. John Thomson, M.D., Professor of General Pathology (1831-1842),
by Steell.
6. Thos. Chas. Hope, M.D., Professor of Chemistry (1795-1844), by
Steell.
7. Macevay Napier, M.A., Professor of Conveyancing (1825-1847), by
Slater.
8. George Dunbar, M.A., Professor of Greek (1805-1852), by Slater.
9. James Pillans, LL.D., Prof. of Humanity (1820-1863), by Slater.
10. Robert Jameson, Professor of Natural History (1804-1854), by Steell.
11. Edward Forbes, Professor of Natural History (1854-1855), by Steell.
12. Robert Blair, Professor of Practical Astronomy (1786-1834).
13. Dugald Stewart, Professor of Moral Philosophy (1775-1810), by
Joseph.
14. Sir John Leslie, Professor of Natural Philosophy (1819-1833), by
Steell, after Joseph.
15. Andrew Duncan, senior, Professor of Institutes of Medicine (1789-
1819), by Slater.

16. Sir William Hamilton, Bart., Professor of Logic and Metaphysics (1836-1856), by Brodie.
17. Sir Robert Christison, Bart., Professor of Materia Medica, by Brodie.
18. Robert Lee, D.D., Professor of Biblical Criticism (1847-1860), by Brodie.
19. George James Allman, Professor of Natural History (1855-1870), by Hutcheson.
20. Sir James Y. Simpson, Bart., Professor of Midwifery (1840-1870), by Brodie.
21. James Syme, Professor of Clinical Surgery (1833-1869), by Brodie.
22. John Schank More, Professor of Scots Law (1845-1861).
23. Andrew Brown, Professor of Rhetoric (1801-1835).
24. J. H. Bennett, Professor of Institutes of Medicine (1848-1874), by Brodie.
25. Thos. Jackson Crawford, D.D., Professor of Divinity (1859-1876), by Brodie.
26. Thos. Laycock, M.D., Professor of Practice of Medicine (1842-1855), by Clark Stanton.
27. W. B. Hodgson, LL.D., Professor of Political Economy (1871-1880), by Brodie.
28. W. R. Sanders, M.D., Professor of Pathology (1869-1881), by Brodie.
29. Sir Wyville T. C. Thomson, Professor of Natural History (1870-1882), by Hutcheson.
30. H.R.H. the Duke of Edinburgh, by Steell.
31. The Hon. Lord Rutherford, by Theed.
32. A. H. Rhind of Sibster, by Brodie.
33. Sir John Watson Gordon, after Park.
34. John Edward Baxter, Esq., by Hill.
35. Sir William Knighton, M.D., by E. H. Bailey.
36. Sir Alexander Grant, Bart., Principal (1868-1884), by Charles M'Bride, presented by subscribers, chiefly Members of Senatus.
37. William E. Aytoun, Professor of Rhetoric and English Literature (1845-1865), after Park, presented by his sisters.
38. John Wilson, Professor of Agriculture (1854-1885), by S. Williamson, Esher, presented by Mrs Wilson.
39. Alexander Dickson, Professor of Botany (1879-1887), by Charles M'Bride, presented by Subscribers.
40. Sir Cowasjee Jehangir Readymoney, K.C.S.I., by Woolner, presented by Sir George Birdwood, M.D.
41. Rt. Hon. John Inglis, D.C.L., LL.D., Lord Justice-General, Chancellor of the University (1868-1891).
42. John Rae, M.D., LL.D., Arctic Explorer.
43. James Miller, M.D., LL.D., etc., Professor of Surgery in the University (1842-1864).
44. John Goodsir, F.R.S., Professor of Anatomy in the University (1846-1867).
45. David Masson, M.A., LL.D., Professor of Rhetoric and English Literature (1865-1895).
46. Sir Douglas Maclagan, M.D., LL.D., Professor of Medical Jurisprudence (1862-1897).
47. Robert H. Gunning, M.D., LL.D., of Edinburgh and Rio de Janeiro.

48. Sir William Muir, K.C.S.I., D.C.L., etc., Principal of the University (1885-1903), by Charles M'Bride, presented by Subscribers.
49. James Gregory, M.D., Professor of Practice of Physic (1790-1821).
50. James Moncrieff Arnott of Chapel, Fife.
51. John Wilson, Professor of Moral Philosophy (1820-53).
52. Sir Archibald Geikie, by Lanteri.

IN STUDENTS' READING ROOM.

1. Thomas Carlyle, Rector of the University (1865-1868).
2. Lord Brougham, by Christopher Moore.

IN ROOM IN THE DOME.

Robert Cox, Esq., Founder of the Dome, by J. S. Rhind, after Brodie, presented by Robert Cox, Esq., of Gorgie.

IN ANATOMICAL MUSEUM.

1. Alex. Monro (*secundus*), M.D., Professor of Anatomy (1758-1798).
2. John Goodsir, F.R.S., Professor of Anatomy (1846-1867), by Brodie.

IN PHYSIOLOGY DEPARTMENT.

1. John Hughes Bennett, M.D., Professor of Physiology (1848-1874).
2. William Rutherford, M.D., F.R.S., F.R.S.E., Professor of Physiology in the University (1874-1899).

IN ENGINEERING DEPARTMENT.

Robert Stevenson, Engineer.

IN MIDWIFERY DEPARTMENT.

Sir James Y. Simpson, Bart., Professor of Midwifery (1840-1870), by Walter Wallace.

Thomas Chalmers, D.D., Professor of Divinity (1828-1843), by Sir John Steell, R.S.A. (subject to liferent of Miss Chalmers).

TORRIE FINE ART COLLECTION.

Sir James Erskine of Torrie, by a Will, dated April 1834, bequeathed to the University his Pictures, Bronzes, and Marbles, "for the purpose of laying a foundation for a GALLERY for the encouragement of the Fine Arts." The collection is at present temporarily deposited in the National Gallery, until funds can be obtained for its suitable display in the University Buildings, and for carrying more fully into effect the intentions of the testator.

The Pictures, forty-six in number, include choice specimens of the works of different Masters, especially in the Flemish and Dutch Schools. The Marbles, seventeen in number, and twenty-two Bronzes, have been chosen with a correct appreciation of

the merits of this department, and the whole collection reflects credit on the taste and public spirit of Sir James Erskine.

The following is a Catalogue of the Collection :—

I. Pictures in National Gallery.

The numbers of the Pictures in the National Gallery Catalogue are given within parentheses.

1. A Squall, by Ludolf Bakhuizen, *b.* 1631, *d.* 1708. Canvas, 23 by 17 in., oblong. (2.)
2. A Young Noble and Lady, by Pietro Della Vecchia. Canvas, 29 by 22 in., upright. (36.)
3. Rocky Landscape, with Figures,—Sunset, by Andries Both (?), *b.* 1609. Canvas, 23 by 18 in., oblong. (14.)
4. Landscape and Figures, by Jan Both, *b.* 1610, *d.* 1652. Canvas, 42 by 41 in., upright. (15.)
5. Landscape, with Mounted Figures, by Jan Both. Panel, 22 by 16 in., oblong. (16.)
6. Venus and Adonis, by Paolo Veronese, *b.* 1528, *d.* 1588. Canvas, 32 by 24 in., upright. (125.)
7. Cattle Piece, by Nicolaes Berchem, *b.* 1620, *d.* 1683. Panel, 12½ by 9¾ in., upright. (5.)
8. Herd with Cattle, by Nicolaes Berchem. Panel, 12 by 9¼ in., oblong. (6.)
9. Skirmish of Cavalry, by Jacques Courtois (Borgognone), *d.* 1621, *d.* 1676. Canvas, 22 by 13 in., oblong. (11.)
10. Skirmish of Cavalry, companion picture to No. 9, by Jacques Courtois (Borgognone). Canvas, 22 by 13 in., oblong. (12.)
11. Party at Cards, by Johan le Ducq, *b.* 1630, *d.* 1676. Panel, 25 by 17 in., upright. (49.)
12. Land Storm, by Gaspard Dughet (Poussin), *b.* 1613, *d.* 1675. Canvas, 32 by 22 in., oblong. (61.)
13. Architectural Piece, with Figures, by Giovanni Ghisolfi, *b.* 1632, *d.* 1683. Canvas, 46 by 38 in., upright. (33.)
14. Classical Ruins, with Figures, companion picture to No. 13, by Giovanni Ghisolfi. Canvas, 46 by 38 in., upright. (34.)
15. Interior of Cottage, with Peasant's Family, by Jean Baptiste Greuze, *b.* 1725, *d.* 1805. Canvas, 32 by 25 in., oblong. (37.)
16. Forest Scene, with Deer, by Jan Van Der Heijden, *b.* 1637, *d.* 1712. Panel, 11¼ by 8¾ in., oblong. (115.)
17. Forest Landscape, by Meindert Hobbema, *b.* 1638, *d.* 1709. Panel, 36 by 21 in., oblong. (44.)
18. A Woodland Scene, with river-bank in the foreground, by Meindert Hobbema. Panel, 26 by 18 in., oblong. (45.)
19. Horsemen halting at an Italian Winehouse, by Karel Du Jardin, *b.* 1622, *d.* 1678. Canvas, 34 by 32 in., oblong. (25.)
20. Farrier's Shop, by Karel Du Jardin. Canvas, 17 by 15 in., oblong. (26.)
21. Waggon halting at the door of an Alehouse, by Johannes Lingelbach, *b.* 1623, *d.* 1674. Canvas, 18 by 15 in., upright. (50.)

22. Progress of Louis XIV., in a State carriage, with cortège, by Adam Frans Van Der Meulen, *b.* 1632, *d.* 1690. Canvas, 33 by 24 in., oblong. (116.)
23. Interior of a Cathedral (the clear figures by Van Thulden), by Peeter Neelfs, *b.* 1577, *d.* 1660. Panel, 15½ by 11¾ in., oblong. (53.)
24. Dutch Landscape; sunset effect, with bathers in a river, by H. Ten Oever. Canvas, 34 by 26 in., oblong. (22.)
25. Battle Piece, by Giulio Romano, *b.* 1492, *d.* 1546. Canvas, 25 by 18 in., upright. (71.)
26. A Dead Christ, by Giulio Cesare Procaccini, *b.* 1548, *d.* 1626. Canvas, 17 by 11 in., oblong. (64.)
27. Recesses of a Forest, with effect of morning light descending through the interstices of the trees, by Adam Pynacker, *b.* 1621, *d.* 1673. Canvas, 37 by 32½ in., upright. (65.)
28. Woodland Scene, by Rembrandt? Canvas, 28 by 21 in., oblong. (68.)
29. Sketch for a Mountain Landscape, by Rembrandt, *b.* 1606, *d.* 1669. Panel, 16 by 12 in., oblong. (69.)
30. An Ecce Homo, by Guido Reni, *b.* 1575, *d.* 1642. Canvas, 22 by 17 in., upright. (41.)
31. Rocky Landscape and figures, by Salvator Rosa, *b.* 1615, *d.* 1673. Canvas, 38 by 20 in., oblong. (72.)
32. Wood Scene on the Banks of a River, by Jacob van Ruisdael, *b.* 1628, *d.* 1682. Canvas, 29 by 24 in., oblong. (74.)
33. Landscape, by Jacob van Ruisdael. Canvas, 76 by 53 in., oblong. (75.)
34. Wolf Hunt, by Franz Snyder, *b.* 1579, *d.* 1657. Canvas, 97 by 79 in., oblong. (81.)
35. Boar Hunt, by Franz Snyder. Canvas, 100 by 72 in., oblong. (82.)
36. Physician and Patient, by Jan Steen, *b.* 1626, *d.* 1679. Canvas, 28 by 22 in., upright. (86.)
37. *Pasticcio*, or imitation of a Venetian picture of the Bassano School, by David Teniers, *b.* 1610, *d.* 1690. Canvas, 18 by 12 in., oblong. (89.)
38. Peasants playing at Skittles, by David Teniers. Panel, 22 by 14 in., oblong. (90.)
39. Sea Piece, unknown. Canvas, 22 by 16 in., oblong. (27.)
40. Virgin and Child, and St Catherine, Venetian School. Panel, 19 by 16 in., upright. (102.)
41. Landscape and Figures, by Van der Leeuw, *b.* 1639, *d.* 1672. Canvas, 42 by 32 in., oblong. (112.)
42. Cattle and Herdsmen, by Adrian van de Velde. Canvas, 15 by 12 in., oblong. (113.)
43. Fishing Boats in a Calm, by Willem van de Velde, *b.* 1633, *d.* 1707. Canvas, 22½ by 17 in., oblong. (114.)
44. Martyrdom of St Andrew, by Domenichino, *b.* 1581, *d.* 1641. Canvas, 17 by 13 in., oblong. (23.)
45. Figure of Bather, by Domenichino. Canvas, 21 by 17 in., upright. (24.)
46. Italian Landscape, by Richard Wilson. Canvas, 28¾ by 20 in., oblong. (331.)

II. Marbles in National Gallery.

1. Group of Arria and Pætus, in Italian marble, 38 in. high. (163A.)
2. Copy of the Crouching Venus, in Carrara marble, 29 in. high. (164.)
3. Copy of Venus leaving the Bath, 28 in. high. (150.)
4. Antique Torso of a Nude Venus, 34 in. high. (1631.)
5. Antique, small Statue of a Youth, 20 in. high. (139.)
6. Small antique figure of a Draped Venus, about 15 in. high. (155.)
7. Antique Draped Female, without head or arms, 31½ in. high. (130.)
8. Antique small Draped Figure, 21 in. high. (147.)
9. Column of *Giallo Antico*, 46 in. high. (165.)
- 10, 11. Two fine Vases of *Rosso Antico* porphyry, with handles, 19½ in. high, and 12 in. diameter at mouth. (161.)
12. Small Vase of *Rosso Antico* marble, 16½ in. high. (160.)
13. Vase of *Verde Antico* porphyry, with base, 22½ in. high. (140.)
- 14, 15. Two small Vases of the same porphyry, 13 in. high. (148 and 152.)
- 16, 17. Two Vases of grey granite, 15½ in. high, both placed on plinths of *Giallo Antico*. (157 and 158.)

III. Bronzes in National Gallery.

1. Bronze Head of Empress Plotina, Consort of Trajan, heroic size, 42 in. high. (163.)
2. Anatomical Figure of a Horse, 35 in. high from the plinth. (165B.)
3. Small group of Dirce, 21 in. high. (134.)
4. Miniature copy of the group of *Beauty chaining Strength*, 12 in. high. (154.)
5. Miniature copy of the Venus de' Medici, 24 in. high. (145.)
6. Ditto of the Fighting Gladiator, 29 in. high. (142.)
7. Ditto of the Arrotino, 14½ in. high. (143.)
8. Miniature copy of the group of the Athletes, 16 in. high. (132.)
9. Ditto of the Rape of the Sabines, after Giovanni Bologna. (136.)
10. Ditto of his Mercury, 20½ in. high. (129.)
11. Ditto of Michelagnolo's NIGHT. (144.)
12. Ditto of Michelagnolo's AURORA, 23 in. long and 11 in. high. (141.)
13. Ditto of Venus, 15 in. high. (146.)
14. Ditto of Samson slaying the Philistines, after Adrien Van Vries, 30 in. high. (137.)
15. Miniature of a Youth with one arm on his head and the other behind his back, 8 in. high. (133.)
16. Ditto of the Florentine Boar, 8 in. high, including the plinth. (159.)
17. Cupid resting on one foot as if about to fly, 13 in. high. (155.)
18. Antique bronze figure of a bull, 10 in. high. (156.)
19. Antique bronze of a he-goat, 8 in. long. (135.)
20. Chased Vase, from the *Villa Borghese*, the plinth inscribed "G. Zoffoli," 12 in. high, 6½ in. wide. (138.)
- 21, 22. Two Chased Vases from the *Villa Borghese*, with similar inscriptions, 14 in. high, 11 in. wide. (149 and 151.)

MUSEUMS.

A Museum Committee, consisting of three members, not being members of the Senatus, appointed by the University Court, and of six appointed by the Senatus, is charged with the superintendence of all Museums belonging to the University, and of any collections, furniture, or apparatus, or objects acquired for the use of the University or of any class therein. The members are appointed by the University Court and Senatus, respectively, at their first meeting in the Winter Session of each year.

Members of Committee appointed by the University Court.

R. Mackenzie Johnston, M.D.

Sir George A. Berry, M.D.

Dr D. F. Lowe.

Appointed by the Senatus Academicus.

Professors Robinson (Convener), Sir E. A. Sharpey Schafer,
Lorrain Smith, Barkla, Jehu, Ewart, Cushny.

Of the following Museums, several belong partly or wholly to the Professors of the respective subjects:—

Natural Philosophy Museum.—A large collection of physical apparatus, including many pieces of great historical interest.

Fine Art Museum.—The Department contains a collection of casts from the antique, photographs, diagrams, etc., used for the illustration of lectures, and accessible for private study.

Geological Museum.—This Museum, formed for Class purposes, shows the characters of minerals and rocks, and the typical fossils of the different geological systems.

Natural History Museum.—This Museum, which is open to members of the classes of Zoology, contains the specimens used in illustrating the lectures on Elementary and Advanced Zoology. Graduates, Students, and others interested are invited to aid the Department by presenting specimens which would be of service in teaching.

The collections in the Royal Scottish Museum are also available for the educational purposes of the University, and are accessible to Students attending the classes of Zoology and Geology.

Royal Botanic Garden.—The Royal Botanic Garden, Inverleith Row, is connected with the University, in so far as the Professor

of Botany delivers his Lectures in the Hall in the Garden. The Garden is open daily. Specimens of plants for study are supplied to Students so far as practicable.

The Botanical Museum in the Garden is open to Students daily, under the direction of the Professor and Mr H. F. Tagg, Assistant in charge.

The University Herbarium, which is placed in the Garden, may be consulted between 10 and 1, and 2 and 5, under the direction of the Professor and the Assistant in charge.

Chemistry Museum.—Professor Playfair, afterwards Lord Playfair, on his resignation of the Chair of Chemistry, presented to the University the chemical substances he had used in illustrating his lectures. The collection has been increased by gifts from chemical manufacturers and others, and by substances prepared in the University Laboratory.

Forestry Museum.—The collections include sections and planks of the different conifers and hardwoods grown in the British Isles, as well as numerous examples of malformation and disease. There are also examples of transplants and various methods of planting; a complete set of axes, saws, planting instruments, and other tools used in forestry operations; instruments used in the measurement of height and diameter; and sets of apparatus and tools required in the Practical Courses.

Agricultural Entomology and Forest Zoology Museum.—This Museum is situated in the new University Building in George Square. It contains a representative collection of Invertebrates and Vertebrates of economic importance. In addition to the animals, there is a series of specimens showing the damage done by the various species. The Museum is under the direction of the Lecturer. It is open to Students of the various Classes, and to others by arrangement.

The Waterhouse Collection of the Coleoptera of Great Britain is now a part of the University equipment in Entomology. Applications from workers in Entomology desirous of consulting this fine Collection should be made to Dr R. Stewart MacDougall.

Anatomical Museum.—Founded in 1800 by Dr Monro, *secundus*, who presented his own Anatomical Collection, and that of his father, to the University, "to be used by his successors for the purpose of demonstrating and explaining to the Students the

structure, physiology, and diseases of the human body." In 1859, Sir David Monro, M.D., presented a collection of anatomical preparations, formed by his father, Dr Alexander Monro, *tertius*. Numerous additions were also made by Professor Goodsir, especially in the department of Comparative Anatomy; on his death the Senatus purchased his Private Museum, and added it to the Collection. The Museum was transferred in 1884-85 to the New University Buildings, where it is arranged in a large and handsome Hall with two galleries. This Hall was designed by Sir R. Rowand Anderson in consultation with Sir William Turner, who, during his tenure of office as Professor of Anatomy in the University, made many additions to the Collection and also rearranged it in its transfer to the New Buildings. The Museum now contains several thousand specimens in illustration of Human Anatomy, both normal and pathological, and of Comparative Anatomy. It is specially distinguished by its specimens illustrative of the anatomy of the Cetacea and by its very large collection of Human Crania from all parts of the world. Its extension in both of these directions was effected by Sir William Turner.

The Conservator, the Professor of Anatomy, will gratefully receive contributions of rare and interesting specimens from Graduates and former Students. He is especially desirous of making the collection thoroughly representative of the osteology of the different Races of Men.

The Museum is open at certain hours to all matriculated students. The pathological collection occupies the upper gallery. The spirit-preparations in illustration of normal Human and Comparative Anatomy are arranged in the lower gallery. The osteological collection is disposed in the cases on the floor, and suspended in the centre of the Hall. In 1887 the Henderson Trustees committed to the custody of the Conservator their valuable collection of crania and casts.

Physiology Museum. — A large collection of Physiological Instruments, Models, Microscopes, Microscopical and Chemical Appliances, Diagrams, Preparations, etc.

Materia Medica Museum. — The Materia Medica Museum contains one of the most complete collections of medicinal and food substances in this country. The collection was founded by Professor Andrew Duncan. His successor, Sir Robert Christison, during his long incumbency of the Professorship, added a large

number of valuable specimens, which were, for the most part, mounted by himself, with singular neatness. Sir Thomas Fraser made further extensive additions. The Museum has been greatly enriched by interesting donations from former members of the class in all parts of the world. Besides the general collection, there is a Students' Reading Museum, containing specimens of the medicinal substances usually employed in this country.

Forensic Medicine Museum.—This Museum contains a large collection of Pathological specimens, photographs, casts, weapons, etc., illustrative of the various branches of Medical Jurisprudence and Toxicology.

Practice of Physic Museum.—This contains Pathological Specimens, drawings, models, diagrams, and charts, the property of the Professor.

Surgical Museum.—This collection was founded by the late Professor Spence, and was largely extended by his successor Professor Chiene. Many additions have recently been made, both of Pathological preparations and of photographs and X-ray prints illustrating Clinical and Surgical Pathology.

Obstetrical Museum.—Besides a few preparations left by Professor Hamilton, this contains instruments, preparations, models, and diagrams, collected by Sir James Y. Simpson, and added to by Sir Alexander R. Simpson, in addition to the preparations, specimens, instruments, and class illustrations added by the present Professor.

Museum of Music and Musical Instruments.—A very interesting and valuable collection of acoustic and musical instruments.

LABORATORIES, Etc. •

The following means are afforded for Practical Instruction :—

The Physical Laboratory, established with the view of affording Students a practical knowledge of the construction and use of physical apparatus and the mode of conducting experimental inquiries, is open daily during the Autumn, Spring, and Summer Terms from 10 to 4 (for Advanced Students from 9 to 4.30), under

the superintendence of the Professor. It is open (for Research Students only) on 1st October ; and will continue open every lawful day during the year, holidays and the long vacation excepted.

FEEs.— Course of 50 hours, £1, 1s. ; Course of 60 to 100 hours, £2, 2s. ; Single Term, two hours a day, £2, 2s. ; Two Terms, two hours a day, £3, 3s. ; Whole Academic Year, two hours a day, £4, 4s. ; Whole Academic Year, for the hours during which the Laboratory is open daily, £6, 6s.

The Mathematical Laboratory, affording Students a training in the science and art of calculation, and the performance of all types of numerical and graphical computation by the aid of mathematical tables and calculating machines, as required in the practical applications of Mathematics. The Laboratory is under the direction of Professor Whittaker and the Lecturers of the Mathematical Department.

The Royal Observatory is open to Students of Astronomy, on Friday evenings from 5 P.M.

The Psychological Laboratory is open during Terms, for research and for practical instruction, under the direction of the Lecturer.

FEE.— Single Term, two hours daily (or an equivalent period within the same term), £1, 1s.

The Chemical Laboratories have accommodation for 100 Students working at one time. They contain the necessary equipment for a complete course of instruction in the various branches of Chemical Work and for Research. The instruction given includes the Qualitative and Quantitative Analysis of Inorganic and Organic Substances, Chemical Preparations, Assaying, Gas Analysis, and Physico-Chemical Measurements. The training is suited not only for Students studying for Science and Arts Degrees, but for the Examinations of the Institute of Chemistry, and for persons desiring to qualify themselves as Analysts, Technical Chemists, etc. The First Year's Course in Science consists of four hours' instruction weekly, during the three terms: Fee, £4, 4s.

The Intermediate and Advanced Laboratories are open from 9.30 to 4.30 daily, during the three terms, and are under the charge of Professor Walker and Professor Barger, assisted by Leonard Dobbin, Ph.D. ; J. E. Mackenzie, Ph.D., D.Sc. ; S. A. Kay, D.Sc. ; H. G. Rule, D.Sc., Ph.D. ; A. M. Williams, D.Sc. ; D. Balsillie, B.Sc. ; J. D. M. Ross, D.Sc. ; and Demonstrators.

A member of the staff is in attendance at the Laboratories daily from 10 A.M. till noon during the week preceding the opening of the Autumn Term (but not on the Saturday), and Students who intend beginning their Laboratory work are requested to call and consult him regarding the arrangements. **FEES.**—Whole day, £6, 6s. per term; £16, 16s. per annum. Half-day, £3, 3s. per term; £8, 8s. per annum. For First Year's Course, see above.

Zoology Laboratories, open on 8th October and 15th April for the Winter and Summer Sessions respectively, for study of the structure and development of Invertebrate and Vertebrate forms; and are open daily, under the superintendence of the Professors, assisted by Augusta Lamont, B.Sc., and other Assistants. No fees are charged to those engaged in research, but they are expected to defray the cost of their investigations.

The Laboratory in the Royal Botanic Garden is open daily, for practical study of plants, and botanical research, under the direction of the Professor and Mr M. Y. Orr, the Assistant in charge.

Geological and Petrological Laboratories are open from 9.30 to 4.30 daily, during the three terms; and are under the charge of Professor Jehu, assisted by Robert Campbell, M.A., D.Sc., and T. M. Finlay, M.A., B.Sc.

Dissecting Rooms, open daily under the superintendence of the Professor, assisted by E. B. Jamieson, M.D., Ch.B.; F. E. Jardine, M.B., Ch.B.; W. Q. Wood, M.D., Ch.B.; and other Demonstrators: open 14th October and 20th April, and continue open till the end of the Winter and Summer Sessions.

Anatomical and Anthropological Research Laboratory, open daily throughout the year. No fees are charged to those engaged in research, but they are expected to defray the cost of their investigations.

Physiology Laboratory, for the prosecution of Research in Physiology, and for the study of Practical Physiology, is open daily for workers, all the year round, under regulations which may be obtained from the Professor. No fees are charged to those engaged in research, but they are expected to defray the cost of their investigations. Fees for revision work (only for students who have already taken the Practical Classes).—Per month: *Whole day*, £2, 2s.; *Half day*, £1, 1s. No revision ticket is given without a written permit from the Professor.

Engineering Drawing Class Room, daily, from 10 to 4, for instruction in drawing and drawing-office routine.

The Engineering Laboratories, open daily on and after 1st October and 16th April for the Winter and Summer Sessions respectively, from 10 to 5, for practical instruction in the processes employed by the Engineer in the Experimental Determination of the Physical and Economical Constants of Materials, Machines, and Prime Movers.

Practical Instruction in Office and Field-work, in connection with the Summer Course on Surveying, Levelling, etc., from 10 to 4.

The John Usher Institute of Public Health.—The Students' Laboratories are open daily from 9.30 to 4.30 during the Winter and Summer Sessions, under the direction of the Professor, assisted by J. Buchanan Young, M.B., D.Sc. (P.H.). The Laboratories are fully equipped for a complete course of instruction in bacteriological, chemical, and meteorological work, in relation to the prevention of disease. The training is suited not only for students preparing for the degree of B.Sc. in Public Health, but also for those preparing for Diplomas in Public Health granted by the different licensing boards.

There are also several research rooms, for research in bacteriology and bacteriological chemistry, under the direction of the Professor and his Assistants.

Fees.—*Whole day.*—Winter Session, £10, 10s. ; or Oct.-Dec., or Jan.-March, or Summer Session, £5, 5s. *Half day*—Winter Session, £6, 6s. ; Oct.-Dec., or Jan.-March, or Summer Session, £3, 3s. Preference will be given to Students in the above order.

Entomological Laboratories.—The Laboratories in the New University Building in George Square are open daily during the Session for Practical and Advanced Work, under the superintendence of Dr R. Stewart MacDougall. Fees, per term, £5, 5s. ; or for the Academic Year, £10, 10s.

Materia Medica Laboratories, for the study of Practical Materia Medica and Practical Pharmacy, and for Pharmacological and Pharmaceutical research, open daily during the Winter and Summer Sessions, under the superintendence of the Professor and Staff of the Department. No fees are charged to those engaged in research, but they are required to defray the expenses of materials.

Pathological Laboratory.—This includes a recently equipped Chemical Laboratory, and is open daily for Pathological Research,

under the superintendence of the Professor of Pathology, to whom application should be made. No fees are charged to those engaged in research.

Bacteriological Laboratory.—By arrangement with the Royal College of Physicians, workers pursuing research under the superintendence of the Professor of Bacteriology will be accommodated in the Research Laboratory of the College at 2 Forrest Road. Applications are to be made to the Professor. No fees are charged to those engaged in research.

Forensic Medicine Laboratory, under the superintendence of the Professor.

Practice of Physic Laboratory, for the study of Medicine, and for research in connection with the Practice of Physic, open daily, under the superintendence of the Professor, assisted by G. D. Mathewson, M.B., B.Sc.

Surgical Laboratory—(a) General Surgical Pathology, (b) Bacteriology—is utilised for teaching Systematic Surgery, and every facility is afforded for investigation, under the superintendence of the Professor, assisted by James M. Graham, M.B., Ch.B., A. Pirie Watson, M.A., M.B., Ch.M., and R. C. Alexander, M.A., M.B., Ch.B.

Obstetrical and Gynecological Laboratory, for research and study of practical work, under the superintendence of the Professor, and Drs A. H. F. Barbour and J. W. Ballantyne.

Tuberculosis.—Opportunities for practical work are afforded at various of the Tuberculosis Institutions, under the direction of the Professor.

Scientific Animal Breeding Station.—The University Court has recently acquired on lease the farm of Fairsacks, in the vicinity of West Linton, in order to provide facilities for animal breeding, having a practical bearing on the agricultural interests of the country. Manager, ROBERT M'CORMACK.

Millport Marine Station (*Superintendent*, RICHARD ELMHIRST).—This marine station, in which a table has been rented by the University, is open from April to October. Applications for the use of the table should be sent to the Dean of the Faculty of Science. Each applicant should indicate for what period he desires to occupy the table, and the nature of the work he proposes to undertake.

PRELIMINARY EXAMINATIONS.

Important Notice.—Every Applicant for admission to a Graduation Curriculum must fill up a **Form of Application for Attestation of Fitness** to enter upon such curriculum. This Form must be sent, with a fee of 2s. 6d., to the Secretary of the Universities Entrance Board, by whom an Attestation Certificate will be issued.

1. FOR THE DEGREE OF M.A.¹

The following are the Regulations contained in the Arts Ordinance (No. 11, of the University Court of the University of Edinburgh), which remain in force until superseded by later Regulations; and (in smaller type) the Supplementary Regulations of the Universities Entrance Board:—

III. (1) Before entering on the Curriculum (subject to the proviso contained in Section IV., Sub-section 1, p. 88) each student shall pass a Preliminary Examination in the following subjects:—

1. English.
2. Latin or Greek. [For Standard see (2) below.]
3. Mathematics. [For Standard see (2) below.]
4. One of the following —Latin or Greek (if not already taken), French, German, Italian, or such other Language as the Senatus may approve,² Dynamics.

(2) The examination must be passed in the matters and on the standards hereinafter defined; but there shall be a higher and a lower standard in Latin and in Greek, and a higher, an intermediate, and a lower standard in Mathematics.

Candidates must pass on the higher standard in at least one of these three subjects, and may pass on the lower standard in either or both of the remaining two; subject always to the conditions relative to attendance contained in Section IV. hereof.

A candidate shall be obliged to pass in all the required subjects at one or not more than two examinations, provided that he may offer himself for re-examination as often as may be necessary to satisfy this condition.

¹ See Section VIII. of Ordinance—Regulations as to Admission to Scottish Universities, page 88.

² Among languages which have been accepted under this section are:—Gaelic, Spanish, Dutch, Danish, Polish, Modern Greek, Chinese, Turkish, Serbian, and various Indian languages, on the same standard as French and German.

See Regulation as to early entry for Special Languages, page 105.

(Section VIII. of Ordinance—Admission to Scottish Universities).—The Entrance Board shall have power, in the case of an applicant for admission of not less than twenty-one years of age, or such higher age as the Board, with the approval of the four University Courts, shall determine, to grant exemption, in whole or in part, from any requirements laid down in the General or Special Regulations of the Board; but such exemption shall not be granted unless the applicant produces to the Board satisfactory evidence that he possesses a good general education, and unless the Board is satisfied of his fitness to enter upon the curriculum for a Degree.

Qualifying Attendance upon Classes for M.A.

IV. (1) Subject to what is hereafter contained in this Sub-section, attendance on any class shall not qualify for graduation, unless the whole Preliminary Examination has been previously passed. Any student who has passed in Latin, Greek, or Mathematics on the higher standard may attend a qualifying class in such subject or subjects without having passed in the other subjects of the examination, provided always that (a) no candidate shall be allowed to present himself for examination in any subject qualifying for graduation until he has passed the whole Preliminary Examination, and (b) no student shall be admitted to a degree in Arts unless he has attended qualifying classes in this University, or in another Scottish University, or in a University specially recognised, as provided by Section XX. hereof, for three academical years after he has completed his Preliminary Examination.

(2) Attendance on a class in any language included in the Preliminary Examination shall not qualify for graduation, unless the candidate, before entering the class, has passed the Preliminary Examination in that subject, and on the higher standard where more than one standard is provided. He may, for that purpose, attend any Preliminary Examination held during the course of his study, taking only the paper set in that subject; provided always that the provisions of the Sub-section immediately preceding shall have been satisfied.

(3) Attendance on a class in any language not included in the Preliminary Examination shall not qualify for graduation, unless the candidate has previously passed an examination in that language on a standard as nearly as possible equivalent to the

higher standard of the languages included in the Preliminary Examination.

(4) Attendance on a class of Mathematics or Natural Philosophy shall not qualify for graduation unless the candidate, before entering the class, has previously passed in Mathematics on the higher standard, or on the intermediate standard.

(5) If a student, before passing the Preliminary Examination, has attended a class qualifying for graduation, the Senatus may, on special cause shown, permit him to count such class as qualifying for graduation, on condition of his passing the full Preliminary Examination within such time thereafter as the Senatus may appoint; and in every such case the Senatus shall make a report to the University Court, setting forth the reasons for the relaxation.

Note.—The privilege, given under this Sub-section, entitles the student to count the attendances merely. He cannot begin to count Academic Years, or enter for any Graduation Examination, until he has completed his Preliminary Examination as a whole; nor can he enter for a Graduation Examination in any particular subject (such as Latin, Greek, etc.) for which there is an Entrance Examination, until he has passed that Examination.

CHEMISTRY.

The following Regulations will come into force in October 1921:—

Students desiring to attend the classes of Chemistry for purposes of graduation in the Faculties of Arts, Science, or Medicine are required to pass an admission examination in the subject.

Syllabus.—Elements and compounds—The Chemistry of air and water—Combustion, flame—Oxidation and reduction—Acids, bases, salts—Elementary Chemistry of the commoner elements, including hydrogen, oxygen, nitrogen, carbon, sulphur, chlorine, sodium, calcium, copper, lead, zinc, iron—Laws of Boyle, Charles, Gay Lussac, Avogadro—Equivalent, molecular and atomic weights, valency—A working knowledge of symbols, formulæ, and equations—Empirical and molecular formulæ—Simple chemical calculations involving weights of materials and volumes of gases.

Exemption from this examination will be granted to students who have passed in the Higher Grade of Science (including Chemistry) at the Leaving Certificate Examination of the Scottish Education Department, or such other similar examination as the Senatus may from time to time recognise.

2. FOR THE DEGREE OF B.Sc.

(a) FOR THE DEGREE IN PURE SCIENCE.¹

Before entering on the Curriculum—subject to the proviso in Section X. of the Science Ordinance (see below)—each student shall pass a Preliminary Examination in the following subjects:—

- (1) English.
- (2) Latin or Greek (Lower Standard), or French or German (Higher Standard).
- (3) Mathematics (Higher Standard, or Intermediate Standard on condition stated below).
- (4) One of the following:—Latin, Greek, French, or German (if not already taken), Italian, or such other language as the Senatus may approve²; Dynamics.

A candidate shall be obliged to pass in all the required subjects at one or not more than two examinations, provided that he may offer himself for re-examination as often as may be necessary to satisfy this condition.

Candidates may take **Mathematics** on the Intermediate Standard (see particulars on p. 97) instead of on the higher standard, provided they also take an additional modern language, on the standard of the Preliminary Examination for degrees in Medicine, as a fifth subject.

No candidate will be entitled to profess Mathematics, Natural Philosophy, or Astronomy at the Final Science Examination, unless he has passed the Preliminary Examination in Mathematics on the higher standard.

A student who, having passed the Arts Preliminary Examination, has thereafter obtained a certificate of attendance on a qualifying class of Mathematics, will not be required to pass any further examination in Mathematics as a condition of entering on the course of study for graduation in Science.

Attendance on any Science Class will not, except as hereafter stated, qualify for Graduation in Pure Science unless the whole Preliminary Examination has been previously passed.

(See Note as to admission to the Class of Chemistry, on p. 89.)

¹ See Section VIII. of Ordinance—Regulations as to Admission to Scottish Universities, page 88.

² Among languages which have been accepted under this section are:—Gaelic, Spanish, Dutch, Danish, Polish, Modern Greek, Chinese, Turkish, Serbian, and various Indian languages, on the same standard as French and German.

See Regulation as to early entry for Special Languages, page 105.

(Section X. of Science Ordinance).—If a student, before passing the Preliminary Examination, has attended a class qualifying for graduation, the Senatus may, *on special cause shown*, permit him to count such class for examination, on condition of his passing the full Preliminary Examination within such time as the Senatus may appoint. Application for this privilege should be made to the Dean of the Faculty of Science *at the opening of the Session*.

(b) FOR THE DEGREE IN ENGINEERING.¹

Every candidate for the degree of B.Sc. in Engineering must pass the Preliminary Examination prescribed for degrees in Pure Science; and the conditions with respect thereto imposed by the Regulations for degrees in Pure Science are applicable in all respects to degrees in Engineering, except as follows—viz., Mathematics must be passed on the higher standard, and the Preliminary Examination must be passed before the candidate presents himself for any part of the First Science Examination, but not necessarily before he enters on his curriculum.

(c) FOR THE DEGREE IN AGRICULTURE.¹

Every candidate for the degree of B.Sc. in Agriculture must pass the Preliminary Examination prescribed for degrees in Pure Science; and the conditions imposed with respect thereto by the said Regulations are applicable in all respects to the degree in Agriculture, except as follows:—The Preliminary Examination must be passed before the candidate presents himself for any part of the First Science Examination, but not necessarily before he enters on his curriculum.

(d) FOR THE DEGREE IN FORESTRY.¹

Before a candidate can be admitted to the first examination for the degree of Bachelor of Science in Forestry, he must have passed a Preliminary Examination in the following subjects: provided always that, in the case of a candidate whose native language is not English, an examination in the native language of the candidate may be substituted for one in French, and an examination in any other classical language for one in Latin:—(1) English; (2) Mathematics; (3) German; (4) Latin or French.

Note.—Students who comply with the Regulations for the Preliminary in Pure Science will be accepted, subject to confirmation by the Entrance Board.

¹ See Section VIII. of Ordinance—Regulations as to Admission to Scottish Universities, page 88.

(e) FOR THE DEGREE IN VETERINARY SCIENCE.¹

A candidate for the degree of Bachelor of Science in Veterinary Science must have passed the Preliminary Examination prescribed for degrees in Pure Science.

3. FOR THE DEGREE OF B.L.

Subject to the provision contained in the Law Ordinance (quoted below), each student before entering on his curriculum of study shall have passed—Latin being one of the subjects—

(a) The Preliminary Examination in the Faculty of Arts; and the conditions with respect thereto shall be applicable in all respects except as follows, viz., Latin shall be passed on the higher standard; or

(b) Such other Examination as the Entrance Board may from time to time accept as equivalent to the said Preliminary Examination in Arts in which Latin has been passed on the higher standard, provided always that the Entrance Board shall have power to require, as a condition of such acceptance, that the said Examination shall be passed on a higher standard than the ordinary pass standard thereof.

(Section II. of Law Ordinance).—If a student, before passing the Preliminary Examination, has attended a class qualifying for graduation, the Senatus may, on special cause shown, permit him to count such class as qualifying for graduation, on condition of his passing the full Preliminary Examination within such time thereafter as the Senatus may appoint; and in every such case the Senatus shall make a report to the University Court setting forth the reasons for the relaxation.

A degree in Arts or Science or Economics (not being a degree *honoris causâ tantum*) in any of the Universities in the United Kingdom, or of any Colonial or Foreign University specially recognised for the purpose by the University Court after consultation with the Senatus, shall exempt from the Preliminary Examination.

¹ See Section VIII. of Ordinance—Regulations as to Admission to Scottish Universities, page 88.

4. FOR THE DEGREE OF Mus.B.¹

Every Candidate for the degree of Bachelor of Music shall, before entering upon the curriculum in Music, pass either the Preliminary Examination for the degree of Master of Arts, or the Preliminary Examination for the degree of Bachelor of Science in Pure Science, or pass such examination or hold such University Degree as the Senatus may from time to time determine to accept in whole or in part as equivalent to either of these Preliminary Examinations.

FOR THE DEGREE OF B.Com.¹

Before entering on the Curriculum, each student shall pass either (a) the Preliminary Examination for Arts for the time being, or (b) the Preliminary Examination for Pure Science for the time being, or shall hold a qualification which is now or may hereafter be recognised as exempting from such examinations for the purposes of this Degree.

(Section VI. of B.Com. Ordinance).—Students may attend any classes without having passed the Preliminary Examination within the meaning of this Ordinance, but such attendance shall not qualify for graduation. The Senatus may, however, on special cause shown, permit a student who has not passed the Preliminary Examination to attend a class and count it for graduation, on condition of his passing the Preliminary Examination within such time thereafter as the Senatus may from time to time determine; and in every such case the Senatus shall make a report to the University Court, setting forth the reasons for the relaxation.

Attendance on a class in any language shall not qualify for graduation unless the candidate, before entering the class, shall either have passed the Preliminary Examination in that subject, or have passed an examination in that language on a standard as nearly as possible equivalent to the standard of the modern languages included in the Preliminary Examination.

¹ See Section VIII. of Ordinance—Regulations as to Admission to Scottish Universities, page 88.

Privileges of Foreign Students.

In the case of a student whose native language is other than English, the standard required in English in the Preliminary Examination shall be such as the Entrance Board may deem sufficient.

In the case of a student whose native language is other than European, the Senatus may accept, as an alternative to Latin or Greek, any other classical language, as, for example, Sanskrit or Arabic, subject always to the provisions of Section IV., Sub-section (3) of Arts Ordinance (see p. 88).

In any classical language accepted as an alternative for Latin and Greek, the arrangement of the papers set, and the allocation of marks to the different questions, will be the same as for the papers in Latin and Greek. The examination, if upon the Higher Standard, will consist of two papers of two hours each.

All examinations in modern languages approved by the Senatus Academicus will consist of two papers, each of two hours' duration, and drawn up, so far as possible, in accordance with the Regulations as regards French and German.

Scope and Standard of Examinations.

English shall include Grammar and Composition, and the outlines of Geography and British History, and the standard shall not be lower than that adopted at the date of the approval of this Ordinance for a pass on the Higher Grade Standard at the Leaving Certificate Examination of the Scotch Education Department.

The English Examination will consist of two papers :—

(A) *The History of the British People.* Two hours. Candidates will be expected to show acquaintance with the social as well as the political history of the British People, and the relevant Geography.

About twelve questions will in general be set, of which candidates will be expected to answer six.

(B) *Composition and English Literature.* Two hours. Candidates will be required (a) to write a short Essay, (b) to answer from four to five questions upon subjects derived from a prescribed group of texts; the themes of the Essay will also be based upon the prescribed texts.

One or two of the questions given for choice may be of a grammatical or linguistic character; but the main object of the questions will be to test the candidate's knowledge of the texts themselves, and his power of writing English correctly and well.

Two groups of texts will be prescribed in each year, either of which may be selected by a candidate. Group B in each year will become Group A in the subsequent year, and a new Group B will be added yearly.

The prescribed groups of texts will be :—

Spring and Autumn 1919.

GROUP A.

Shakespeare—*Julius Caesar*.
Tennyson—*Poems of 1842*.
Dryden—*Essay on Dramatic Poesy*.
Scott—*Old Mortality*.

GROUP B.

Shakespeare—*Henry IV.* (first part).
Jane Austen—*Pride and Prejudice*.
Coleridge — *Ancient Mariner*,
Christabel, *Kubla Khan*.
Macaulay—*Essay on Milton*.

Spring and Autumn 1920.

GROUP A.

Shakespeare—*Henry IV.* (first part).
Jane Austen—*Pride and Prejudice*.
Coleridge — *Ancient Mariner*,
Christabel, *Kubla Khan*.
Macaulay—*Essay on Milton*.

GROUP B.

Shakespeare—*King Lear*.
Goldsmith's *Essays* (selected by
Yonge—Macmillan & Co.).
Galt's *Annals of the Parish* and
Ayrshire Legatees (Everyman's
Library).
Lyra Historica, Parts I., II., and
III. (Oxford University Press).

Latin and Greek shall comprise grammatical questions, translation into English from Latin or Greek authors not previously prescribed, and translation of plain passages or easy sentences from English into Latin or Greek. The higher standard shall not be lower than that adopted at the date of the approval of this Ordinance for a pass on the Higher Grade Standard at the Leaving Certificate Examination of the Scottish Education Department, and the lower standard shall not be lower than that adopted at the said date for a pass on the Lower Grade Standard at the Leaving Certificate Examination of the said Department.

The **Latin** Examination on the **Higher Standard** will include Translation, Prose Composition, Grammar, and Sentences.

The **Greek** Examination on the **Higher Standard** will include Translation, Sentences, an Easy Passage of continuous Prose, and Grammar.

The passages for Translation, both from **Greek** and **Latin**, will include Prose and Verse.

The **Latin** Examination on the **Lower Standard** will include Translation and Parsing, Prose Composition, Grammar, and Sentences.

The **Greek** Examination on the **Lower Standard** will include Translation, Sentences, and Grammar.

In the Latin and the Greek Papers, both on the Higher and Lower Standards, candidates are required to satisfy the Examiners both in Composition and in Translation.

Note.—A Lower Pass on the Higher Latin and Greek Papers is not granted.

French, German, and Italian shall comprise grammatical, literary, and easy philological questions, translation into English from French, German, or Italian authors not previously prescribed, and translation from English into French, German, or Italian; and the standard shall not be lower than that adopted at the date of the approval of this Ordinance for a pass on the Higher Grade Standard at the Leaving Certificate Examination of the Scottish Education Department.

French and German:—Two papers will be set in French and two in German, two hours being allowed for each; the first paper to contain a passage for translation from English into French or German, and a test in free composition on some easy subject; the second paper to contain two unseen translations into English (one in prose, one in verse), three grammatical, one philological, and one literary question. Of these five questions the candidates will be allowed to choose three.

Literature will comprise a general knowledge of the life and works of at least one of four standard writers (for French literature, two at least from the nineteenth century, and one at least from the seventeenth century), with special reference to one particular work by each of them. Two of the authors will be changed from year to year.

The authors prescribed for literary questions will be as follows, viz.:—

Spring and Autumn 1919.

FRENCH.—Molière, *Le Bourgeois gentilhomme*; French Prose from Calvin to Anatole France (Dent), eighteenth century; Lamartine, *Le Tailleur de pierres de Saint-Point* (Macmillan, 1s.); E. About, *Le Roi des Montagnes*.

GERMAN.—Heine, *Die Harzreise*; Wildenbruch, *Das edle Blut*; Goethe, *Egmont*; Scheffel, *Ekkehard* (Heath).

Spring and Autumn 1920.

FRENCH.—French Prose from Calvin to Anatole France (Dent), eighteenth century; Lamartine, *Le Tailleur de pierres de Saint-Point* (Macmillan, 1s.); Corneille, *Le Cid*; Mérimée, *Colomba* (complete text).

GERMAN.—Goethe, *Egmont*; Scheffel, *Ekkehard* (Heath); Meyer, *Gustav Adolfs Page* (Heath); Uhland, *Ballads* (Macmillan).

Mathematics on the Lower Standard shall comprise—(1) Arithmetic, including Vulgar and Decimal Fractions, Proportion, Percentage, Square Root, Simple Interest; (2) Algebra, including Fractions, Factors, Square Root, Equations of the First Degree, Simultaneous Equations of the First Degree, Easy Quadratic Equations, Problems leading to the above Equations; (3) Geometry—Euclid, Books I., II., and III. (or their equivalents),

with easy deductions. Demonstrations other than Euclid's will be accepted if they assume no propositions which in Euclid's order are subsequent to the proposition under consideration.

Mathematics on the **Intermediate Standard** shall, in addition to the subjects comprised in the lower standard, comprise—(a) Euclid, Book VI., Propositions 1-19, or Geometry equivalent thereto; (b) Algebra, Quadratic Equations, Ratio and Proportion; (c) the Trigonometry of Right-angled Triangles.

No candidate can pass on the Intermediate Standard who either does not at the same time pass on the Lower Standard, or has not previously passed on the Lower Standard.

Mathematics on the **Higher Standard** shall, in addition to the subjects comprised in the lower standard, comprise Euclid, Books IV., VI., and the first twenty-one propositions of Book XI. (or their equivalents), with deductions, Quadratic Equations, Trigonometry to the solution of Triangles inclusive, and the use of Logarithmic Tables.

In the Examination in **Mathematics** on the **Higher** and **Intermediate** and on the **Lower Standards** each question in **Geometry** will consist of two parts, of which one will be an easy deduction or illustrative exercise on the proposition set as bookwork.

There will be two papers in **Mathematics** on the **Higher** and on the **Intermediate Standard**. The first paper will consist of questions on *Geometry*, and on *Trigonometry*, in the proportion of four-fifths *Geometry* and one-fifth *Trigonometry*. The second paper will consist of questions on *Algebra* (including *Arithmetic*), and on *Trigonometry*, in the proportion of four-fifths *Algebra* and one-fifth *Trigonometry*, and shall contain two or more questions on *Arithmetic*, of which one at least shall be taken by all candidates.

Candidates for the **Higher Standard** may obtain full marks by doing correctly about two-thirds of the questions set in each subject; but the Examiners will be entitled to reject a candidate who makes in any subject less than a certain minimum of the marks allotted to that subject.

The Pass-mark for candidates on the **Intermediate Standard** is fixed with reference to the total number of marks assigned to questions which fall under the syllabus of the **Intermediate Standard**; but such candidates will receive credit for any question they may answer.

The paper in **Mathematics** on the **Lower Standard** will be devoted to the various subjects comprised, in as nearly as possible the following proportions: four-ninths to *Geometry*, three-ninths to *Algebra*, and two-ninths to *Arithmetic*.

Candidates may obtain full marks by doing correctly about two-thirds of the questions set in each subject; but the Examiners will be entitled to reject a candidate who makes in any subject less than a certain minimum of the marks allotted to that subject.

Dynamics shall mean the Elementary Statics and Kinetics of Solids, Liquids, and Gases.

The paper on **Dynamics** will be directed to test the candidate's knowledge of the fundamental principles of the subjects included in it, as defined by the Ordinance above quoted.

Questions may be set which involve the Trigonometry of right-angled triangles.

Candidates may obtain full marks by doing correctly about two-thirds of the questions set in each section of the paper.

Examination Arrangements and Duties of the Scottish Universities Entrance Board.

The Preliminary Examination shall be held not oftener than twice in each year, under such regulations as the Senatus, with the approval of the University Court, shall from time to time determine, and shall be conducted in writing; but the regulations may prescribe that, with respect to any of the subjects, the written Examination shall be supplemented by an Oral or a Practical Examination.

The duties of the Entrance Board include the following :—

(1) In the case of schools in Scotland which regularly present candidates for the Group Certificates of the Scottish Education Department, to determine, after consultation with the said Department, as to the length and general character of the course or courses of secondary education, the satisfactory completion of which, as attested by the Group Certificates of the Scottish Education Department, may from time to time be deemed suitable by the Universities as entitling applicants for admission thereto to enter upon a course of study qualifying for graduation in any Faculty; and to frame General Regulations accordingly.

(2) In the case of other schools in Scotland, to determine whether their curriculum of secondary education is of such a character that evidence of its satisfactory completion, as attested by the Group Certificates of the Scottish Education Department or otherwise, may from time to time be deemed suitable by the Universities as entitling applicants for admission thereto to enter upon a course of study qualifying for graduation in any Faculty; and to frame General Regulations accordingly.

(3) To determine what Leaving or other Certificates shall be accepted as qualifying for admission to the Universities in the case of applicants for admission from outside Scotland; and to frame General Regulations accordingly.

(4) To determine all questions relating to the tests of fitness for admission to the Universities to be required of applicants either from Scotland or from outside Scotland who, owing to exceptional circumstances, have not been able to fulfil the normal conditions referred to in sub-sections (1), (2),

and (3), and are therefore unable to comply with the General Regulations of the Board; and to frame Special Regulations accordingly.

(5) To publish from time to time a list of the Leaving or other Certificates, in addition to the Group Certificates of the Scottish Education Department, which the Board are prepared to accept as qualifying for admission to the Universities.

Until the General and Special Regulations of the Entrance Board have been issued, the following Regulations as to Examinations which exempt from the Preliminary Examination remain in force:—

EXAMINATIONS EXEMPTING FROM THE PRELIMINARY EXAMINATION IN ARTS AND SCIENCE, EITHER WHOLLY OR IN PART.¹

See Important Notice on p. 87.

Note.—Applications for exemption, on the ground of having passed Examinations not included in the following list, should be addressed to the Secretary of the Scottish Universities Entrance Board (see below).

EXEMPTIONS ON ACCOUNT OF WAR SERVICE.

In the case of applicants for admission to the Scottish Universities, with a view to graduation, who are or have been engaged in naval, military, or other public service connected with the war, the Board has agreed to exempt from any of the Preliminary Examinations any applicant who produces satisfactory evidence that he possesses a good general education and satisfies the Board as to his fitness to enter upon the curriculum for a degree.

The "Special Army Education Certificate," duly attested by the Board, will, in the case of male applicants, be accepted as exempting from any of the Preliminary Examinations.

Applicants for exemption must apply to the Secretary of the Scottish Universities Entrance Board, 81 North Street, St Andrews, stating fully the grounds of their claim, and enclosing a fee of 2s. 6d.

1. DEGREES.—A Degree in Arts, not being an Honorary Degree, in any of the Universities of the United Kingdom, shall exempt from the Preliminary Examination in Arts; and a Degree in Science, not being an Honorary Degree, in any of the

¹ Candidates who are exempted in any subject or subjects of the Preliminary Examination shall be deemed to have passed the Preliminary Examination when they have passed in the remaining subjects required by the Ordinances, provided that all such remaining subjects shall be passed at one or not more than two Preliminary Examinations.

Universities of the United Kingdom, shall exempt from the Preliminary Examination in Science.

[A University Certificate, granted by the University of Oxford, or by the University of Cambridge, to a woman who has fulfilled the ordinary conditions for graduation, will be accepted as equivalent to a Degree.]

2. LEAVING CERTIFICATES OF THE SCOTTISH EDUCATION DEPARTMENT.¹—A Pass on the Higher Grade in *Latin*, *Greek*, or *Mathematics* will exempt from Higher Latin, Higher Greek, or Higher Mathematics.

A Pass on the Higher Grade in *English*, *French*, *German*, *Gaelic*, or *Dynamics* will exempt from English, French, German, Gaelic, or Dynamics.

A Pass on the Higher Grade in *Science* will exempt from Dynamics.

A Pass on the Lower Grade in *Latin*, *Greek*, or *Mathematics* will exempt from Lower Latin, Lower Greek, or Lower Mathematics, provided that the Scottish Education Department shall have notified to the Dean of the Faculty of Arts, the Clerk of Senatus, or the Secretary of the Entrance Board that the candidate has reached a sufficient standard in these subjects.

3. OXFORD AND CAMBRIDGE SCHOOLS EXAMINATION BOARD :—

(1) *Higher Certificate*.—A Pass in *Latin* or *Greek* will exempt from Higher Latin or Higher Greek.

A Pass in *French* or *German* will exempt from French or German.

A Pass in *Mathematics* (Group III.) will exempt from Higher Mathematics and from Dynamics.

A Pass in *English*, with either *History* or *Geography*, will exempt from English.

(2) *School Certificate*.—A Pass with credit in *Latin* or *Greek* will exempt from Lower Latin or Lower Greek.

A Pass with credit in *Elementary Mathematics* will exempt from Lower Mathematics.

A Pass with credit in *Additional Mathematics* will exempt from Higher Mathematics.

¹ Cases of hardship arising from changes in the Regulations as to the acceptance of certificates of the Scottish Education Department will be dealt with by the Entrance Board.

EXAMINATIONS EXEMPTING FROM PRELIM. EXAMINATION 101

A Pass with credit in *English*, with either *History* or *Geography*, will exempt from English.

(3) *Lower Certificate*.—A Pass in the higher of the two classes in *Latin* or *Greek* will exempt from Lower Latin or Lower Greek.

4. OXFORD UNIVERSITY LOCAL EXAMINATIONS :—

(1) *Higher Local Examinations*.—A Pass will exempt from all the subjects included in it.

(2) *Senior Local Examinations*.—Distinction in *Latin* or *Greek* will exempt from Higher Latin or Higher Greek.

Distinction in *French* or *German* will exempt from French or German.

A Pass with credit in *Mathematics*, provided that the candidate reaches a sufficient standard in *Trigonometry*, or a Pass with credit in *Higher Mathematics*, will exempt from Higher Mathematics.

A Pass with credit in *English*, in *History*, and in *Geography*, provided that the candidate obtains distinction in *English*, will exempt from English.

A Pass with credit in *Latin* or in *Greek* will exempt from Lower Latin or Lower Greek.

A Pass with credit in *Mathematics* will exempt from Lower Mathematics.

(3) *Junior Local Examinations*.—Distinction in *Mathematics*, with a Pass in *Arithmetic*, will exempt from Lower Mathematics.

5. CAMBRIDGE UNIVERSITY LOCAL EXAMINATIONS :—

(1) *Higher Local Examinations*.—A Pass will exempt from all the subjects included in it.

(2) *Senior Local Examinations*.—Distinction in *Latin* or *Greek* will exempt from Higher Latin or Higher Greek.

Distinction in *French* or *German* will exempt from French or German.

A Pass with credit in *Arithmetic*, *Geometry*, and *Algebra*, with *Trigonometry*, will exempt from Higher Mathematics.

A Pass with credit in *English Composition* and *English Literature*, with either *History of England* (or *History of the British Empire*) or *Geography*, will exempt from English.

A Pass with credit in *Latin* or *Greek* will exempt from Lower Latin or Lower Greek respectively.

A Pass with credit in *Arithmetic*, *Geometry*, and *Algebra*, will exempt from Lower Mathematics.

A Pass with credit in *French* or in *German* will exempt from French or German respectively.

(3) *Junior Local Examinations*.—Distinction in *Mathematics* will exempt from Lower Mathematics.

6. LONDON UNIVERSITY EXAMINATIONS:—

(1) *Matriculation Examination*.—A Pass in *Latin* or *Greek* will exempt from Lower Latin or Lower Greek.

A Pass in *Mathematics* will exempt from Lower Mathematics.

A Pass in *Mechanics* will exempt from Dynamics.

A candidate who has passed in the Honours or First Division, with *English* as one of the subjects, or has obtained distinction in *English*, will be exempted from further examination in *English*.

(2) *Intermediate Examination*.—A Pass in *Latin* or *Greek* will exempt from Higher Latin or Higher Greek.

A Pass in *French* or *German* will exempt from French or German.

A Pass in *English* will exempt from English.

A Pass in *Mathematics* will exempt from Intermediate and Higher Mathematics.

7. UNIVERSITIES OF MANCHESTER, LIVERPOOL, LEEDS, SHEFFIELD, AND BIRMINGHAM:—

(1) *Joint Matriculation Examination*.—A Pass in *Latin*, *Greek*, or *Mathematics* will exempt from Lower Latin, Lower Greek, or Lower Mathematics.

A Pass in Class I. in *English*, *Latin*, *Greek*, *Mathematics*, *French*, or *German* will exempt from English, Higher Latin, Higher Greek, Higher Mathematics, French, or German.

(2) *Higher Certificate Examination*.—A Pass in *English*, provided that it shall include both *English Literature* and *History*, will exempt from English; but one of these may have been taken in the School Certificate Examination.

A Pass in *Latin* or *Greek* will exempt from Higher Latin or Higher Greek.

A Pass in *Pure Mathematics*, or in *Higher Pure Mathematics*, will exempt from Higher Mathematics.

A Pass in *Applied Mathematics* will exempt from Dynamics.

A Pass in *French* or *German* will exempt from French or German.

(3) *School Certificate Examination*.—A Pass with credit in *Latin* or *Greek* will exempt from Lower Latin or Lower Greek.

A Pass with credit in *Mathematics* will exempt from Lower Mathematics.

8. INTERMEDIATE EDUCATION BOARD FOR IRELAND.—Honours in *Latin*, *Greek*, or *Mathematics* in the Senior Grade Examination will exempt from Higher Latin, Higher Greek, or Higher Mathematics.

Honours in *French* or *German* will exempt from French or German.

A Pass with 55 per cent. of the marks in *English* will exempt from English.

9. THE BRITISH EMPIRE OVERSEAS.—Candidates from British Dominions, Colonies, Dependencies, and Protectorates, who present evidence that they have passed examinations which would admit them to Universities, or to Technical Colleges affiliated to a University, in the Dominion, Colony, Dependency, or Protectorate from which they come, will be exempted from the Preliminary Examination in Arts or Science, subject to the following conditions:—

(a) That there is evidence to show that their knowledge of English is sufficient to enable them to follow the courses of instruction with profit.

Note.—Candidates whose native language is other than English, who have not passed in English at the Intermediate or Final Examination for a Degree in Arts, will be required to pass an examination in English, designed to test their ability to understand and use the language sufficiently for the purpose of study at a Scottish University. The written examination in English will consist of one paper of three hours. The paper will consist of (1) an essay; (2) questions on the substance of three books, including an easy play of Shakespeare, a novel, and an essay. In addition to the written part

of the examination, there will also be an oral examination, to test the candidate's power of speaking and understanding English.

Prescribed books for 1919-20:—Shakespeare, *Julius Caesar*; Scott, *Ivanhoe*; Macaulay, *Frederick the Great*.

[*Dates of Examinations—March and September—will be intimated later.*]

(b) That, before attending any class in English, Latin, Greek, French, German, or any other language, they shall have satisfied all the requirements laid down by Ordinance or by Regulation of the University for attendance on such classes.

(c) That, before attending any class in Mathematics or Natural Philosophy, they shall have satisfied all the requirements laid down by Ordinance or by Regulation of the University for attendance on such classes.

(d) That candidates for degrees in Engineering shall produce evidence of a knowledge of Mathematics equivalent to that required in Higher Mathematics in the Preliminary Examination.

Note.—In the case of candidates from India applying for exemption from the Preliminary Examination in Engineering, the Board will accept as evidence of a sufficient knowledge of Mathematics a satisfactory pass in the Intermediate Examination of any of the Indian Universities. A note of the marks obtained in this examination by the applicant must be communicated to the Board.

The Final Examination for the Degree in Engineering of the College of Science, Poona, will be accepted as exempting from the Preliminary Examination in Science (Engineering).

10. FRANCE.—The Baccalauréat ès Lettres and the Baccalauréat ès Sciences will exempt from the Arts and Science Preliminary Examinations respectively.

11. OTHER EUROPEAN COUNTRIES.—Certificates of Maturity, or Grades similar to the French Baccalauréat, which would entitle the holder to study in the Universities of his own country, will exempt from the Preliminary Examination in Arts and Science.

12. MISCELLANEOUS. — Argentine Certificates, giving admission to the University of Buenos Aires, will be accepted.

The Examinations comprised in the Arts Curriculum of the St John's University, Shanghai, taken and passed by Graduates in Arts (B.A.) of that University will be accepted.

The First-Class Certificates of the Anglo-Chinese College, Amoy, will be accepted.

The Egyptian Secondary Education Certificate will be accepted for the Arts Preliminary Examination, if it includes Arabic, English, French, and Mathematics; and for the Science Preliminary Examination if it includes Arabic, English, and Mathematics.

For the requirements of THE CARNEGIE TRUST with respect to Preliminary Education, see APPENDIX.

Time-Table of Examinations, and Dates for Payment of Fees.

The Preliminary Examinations are held in the Examination Rooms, University (Old) Buildings, South Bridge, in Autumn and Spring.

Each candidate must pay a fee of 10s. 6d. for each appearance at the Preliminary Examination.

Entries must be made at the Matriculation Office, University (Old) Buildings, between 1st and 5th September (office hours, 10-1) for the Autumn Examinations, and from 26th February to 1st March (10-4) for the Spring Examinations. In applying for Entry Forms, candidates are required to state whether they are for Arts, Science, or Medicine.

∴ Candidates for Examination in Languages other than English, Latin, Greek, French, or German are required to enter and pay Fees not later than 14th August for the Autumn Examinations, and 13th February for the Spring Examinations. Any later entry must be accompanied by a *Special Late Entry Fee* of 10s.

• Candidates who cannot pay the fees personally may transmit them to JAS. DOWIE, University, Edinburgh, by *Money Orders* or *Postal Orders*. When names are not entered and fees paid, or a pass to the examination obtained where the fee has been previously paid, on or before the stated dates, an additional or *Late Entry Fee* of 10s. must be paid before the candidate can be admitted to the examination. A candidate must enter his name and pay the fee, or, when the fee has been previously paid, obtain a pass, for each periodical Examination at which he desires to appear. If, after payment of the fee, a candidate withdraws his name, or fails to present himself at the Examination, he will not receive back the fee, but will be allowed to appear at a subsequent Examination without payment of any additional fee, on condition that he duly enters his name for that Examination.

Dates.		Subjects.	Hours.
1919.			
Sept. 12	Fri.	English, 1st Paper	9-11
		Higher Latin, 1st Paper	12-2
		Lower Latin	3-6
" 13	Sat.	English, 2nd Paper	9-11
		Inter. and Higher Mathematics, 1st paper	12-2
		French, 1st Paper	3-5
" 15	Mon.	Higher Latin, 2nd Paper	9-11
		Inter. and Higher Mathematics, 2nd paper	12-2
		Lower Mathematics	3-6
" 16	Tues.	Higher Greek, 1st Paper	9-11
		Lower Greek	12-3
		German, 1st Paper	4-6
		Indian Vernacular Languages, etc.	9-11, 12-2
" 17	Wed.	Higher Greek, 2nd Paper	9-11
		French, 2nd Paper	12-2
		Dynamics	3-6
		Sanskrit	9-11, 12-2
" 18	Thur.	German, 2nd Paper	9-11
		Italian	12-2, 3-5
		Hebrew, Arabic, Celtic, Persian	9-11, 12-2

Sept. 29, Mon. RESULTS POSTED TO CANDIDATES (probably).

1920.			
Mar. 12	Fri.	English, 1st Paper	9-11
		Higher Latin, 1st Paper	12-2
		Lower Latin	3-6
" 13	Sat.	English, 2nd Paper	9-11
		Inter. and Higher Mathematics, 1st paper	12-2
		French, 1st Paper	3-5
" 15	Mon.	Higher Latin, 2nd Paper	9-11
		Inter. and Higher Mathematics, 2nd paper	12-2
		Lower Mathematics	3-6
" 16	Tues.	Higher Greek, 1st Paper	9-11
		Lower Greek	12-3
		German, 1st Paper	4-6
		Indian Vernacular Languages, etc.	9-11, 12-2
" 17	Wed.	Higher Greek, 2nd Paper	9-11
		French, 2nd Paper	12-2
		Dynamics	3-6
		Sanskrit	9-11, 12-2
" 18	Thur.	German, 2nd Paper	9-11
		Italian	12-2, 3-5
		Hebrew, Arabic, Celtic, Persian	9-11, 12-2

April 3, Sat. RESULTS POSTED TO CANDIDATES (probably).

MEDICAL PRELIMINARY EXAMINATION.

Before commencing his course of Medical study, each student shall pass a Preliminary Examination in (1) English, (2) Latin, (3) Mathematics, and (4) an Additional Language, namely, Greek, French, German, Italian, or such other language as the Senatus may approve: Provided always that, in the case of a student whose native language is other than English, an examination in any other classical language, for example, Sanskrit or Arabic, may be substituted for an examination in Latin, and an examination in the student's native language may be substituted for an examination in the Additional Language.

Subject to the conditions stated in the Note on p. III, a student shall be obliged to pass in all the required subjects at one or not more than two examinations; provided that he may offer himself for re-examination as often as may be necessary to satisfy this condition.

(Section VIII. of Ordinance—Admission to Scottish Universities).—The Entrance Board shall have power, in the case of an applicant for admission of not less than twenty-one years of age, or such higher age as the Board, with the approval of the four University Courts, shall determine, to grant exemption, in whole or in part, from any requirements laid down in the General or Special Regulations of the Board; but such exemption shall not be granted unless the applicant produces to the Board satisfactory evidence that he possesses a good general education, and unless the Board is satisfied of his fitness to enter upon the curriculum for a Degree.

Scope and Standard of Examinations.

The papers set in **Latin**, **Greek**, and **Mathematics** are the same as those set on the Lower Standard in these subjects in the Arts and Science Preliminary Examination.

These are defined in the Regulations relating to the Arts and Science Preliminary, as follows :—

The **Latin**¹ Examination will include—Translation and Parsing, Prose Composition, Grammar, and Sentences.

¹ No books prescribed.

The **Greek**¹ Examination will include—Translation, Sentences, and Grammar.

In the Latin and Greek papers, Candidates are required to satisfy the Examiners both in composition and in translation.

The **Mathematics** Examination will comprise—(1) Arithmetic, including Vulgar and Decimal Fractions, Proportion, Percentage, Square Root, Simple Interest; (2) Algebra, including Fractions, Factors, Square Root, Equations of the First Degree, Simultaneous Equations of the First Degree, Easy Quadratic Equations, Problems leading to the above Equations; (3) Geometry—Euclid, Books I., II., and III. (or their equivalents), with easy deductions. Demonstrations other than Euclid's will be accepted if they assume no propositions which in Euclid's order are subsequent to the proposition under consideration.

The paper in Mathematics will be devoted to the various subjects comprised, in as nearly as possible the following proportions:—Four-ninths to *Geometry*, three-ninths to *Algebra*, and two-ninths to *Arithmetic*.

Candidates may obtain full marks by doing correctly about two-thirds of the questions set in each subject; but the Examiners will be entitled to reject a Candidate who makes in any subject less than a certain minimum of the marks allotted to that subject.

In **English** no set books shall be prescribed, nor shall a general knowledge of the life and works of the greater authors be expected of candidates; but one or two questions may be set, giving an opportunity to candidates to show a knowledge of famous literary works. The historical questions shall not be confined to any one period, but shall cover the whole of British History, and shall be set in such a way as to give an opportunity to candidates who have confined their studies to a single period to show their knowledge. A single three hours' paper shall be set, containing an Essay, a Paraphrase, two questions on History, two on Geography, four on Grammar (including Correction of Sentences, Parsing, Analysis of Sentences, and Derivations), two of a literary and general kind. Eight answers shall be required. The eight shall include the Essay and the Paraphrase, and at least one question in History and one in Geography.

One paper shall be set in **French**,¹ and one in **German**.¹ The papers shall be of a lower standard than those set in these subjects in the Arts and Science Preliminary. The time allowed for each of these papers shall be three hours. The paper in each subject shall comprise questions in Grammar, translation into English, and Composition (including a continuous passage, and short sentences of an idiomatic character).

The papers set in examinations in the **native language** of a candidate (as a substitute for French or German, under the above-mentioned Medical Ordinances) or in **another classical language** (as a substitute for Latin) shall conform, so far as possible, to the directions for setting papers in Modern Languages and in Latin respectively.

¹ No books prescribed.

EXAMINATIONS EXEMPTING FROM PRELIM. EXAMINATION 109

Candidates who, having taken **English** or a **Modern Language** on the Higher Standard, as prescribed by the Arts Ordinance for the Arts and Science Preliminary, have obtained a satisfactory percentage of marks, shall be held to have passed the Medical Preliminary in these subjects,¹ provided that all the required subjects are passed at not more than two Examinations.

It shall be in the option of any candidate for the Medical Preliminary to take the papers set on the Higher Standard for the Arts Preliminary in any of the subjects.

It shall be at the Board's discretion at all times in the case of any candidate for the Medical Preliminary who professes all his four subjects at one time, and who has obtained an aggregate number of marks equivalent to the sum of the marks required for a Pass in each, to allow such candidate a pass in the whole Examination, provided that in no single subject he has obtained less than half of the marks required for a Pass, and that the Pass-mark be reached in the English Paper. Special consideration is given, at the discretion of the Board, in the case of foreign candidates; but a candidate whose native language is not English must have passed in at least two of the subjects without deduction being made on his behalf from the ordinary standard prescribed by the Board in these subjects.

For CONDITIONS OF ADMISSION TO CLASS OF CHEMISTRY, see p. 89.

EXAMINATIONS EXEMPTING FROM THE MEDICAL PRELIMINARY EXAMINATION.

Provided always that the Regulations of the General Medical Council regarding the Registration of Students of Medicine be complied with.

See **Important Notice** on p. 87.

Note.—Applications for exemption, on the ground of having passed Examinations not included in the following list, should be addressed to the Secretary of the Scottish Universities Entrance Board (see below).

For EXEMPTIONS ON ACCOUNT OF WAR SERVICE, see p. 99.

I. DEGREES.

(1) In terms of the Medical Ordinances, "a Degree in Arts or in Science (not being a degree *honoris causâ tantum*) in any of the Universities of the United Kingdom, or in any Indian, Colonial, or Foreign University, specially recognised for the purpose by the University Court, shall exempt from the Preliminary Examination."

¹ On the Higher Mathematics paper, an Intermediate Pass in Mathematics is granted.

II. ARTS AND SCIENCE PRELIMINARY, ETC.

(1) Any candidate who produces a Certificate of having passed the Preliminary Examination in Arts or Science in any Scottish University, either at the University Examination or through the Leaving Certificate Examinations of the Scotch Education Department, or partly at the University Examination, and partly through the Leaving Certificate Examination, shall be deemed to have passed the Preliminary Examination for Medicine, provided that the Examination has included the specified subjects of General Education, as required under the Regulations of the General Medical Council, and by the Medical Ordinances of the Scottish Universities.

(2) A candidate who has passed the Arts and Science Preliminary Examination, and on the Higher Standard where there is more than one standard, in any subject recognised for the Medical Preliminary Examination, shall be exempted from further examination in that subject.

III. LEAVING CERTIFICATES OF THE SCOTTISH EDUCATION DEPARTMENT.¹

(1) A candidate who has passed on the Higher Grade in any subject of the Leaving Certificate Examination of the Scottish Education Department recognised for the Medical Preliminary Examination shall be exempted from further examination in that subject.

(2) The Leaving Certificate of the Scottish Education Department will be accepted as exempting from the Medical Preliminary Examination, provided that it includes the four requisite subjects.

(3) When all the necessary subjects are not included in the Leaving Certificate, passes in individual subjects may be accepted, if the Department has notified to the Clerk of Senatus or the Secretary of the Entrance Board that a sufficient standard has been reached in such subjects.

(4) Passes in the Lower Grade of the Leaving Certificate Examination of the Scottish Education Department will not be accepted as exempting from the Medical Preliminary Examination.

¹ Cases of hardship arising from changes in the Regulations as to the acceptance of Certificates of the Scottish Education Department will be dealt with by the Entrance Board.

EXAMINATIONS EXEMPTING FROM PRELIM. EXAMINATION III

tion, unless the Examinations in all the requisite subjects have been taken and passed at one or not more than two Examinations.

Note.—Except as provided in Section III. (4) above, the Regulation that all the subjects of the Examination shall be passed at one or not more than two Examinations shall not be held to apply in the cases dealt with in Sections II. and III. above ; but candidates applying under the sections must obtain a University Certificate, specifying the Examinations passed by them which have been accepted as equivalent to the Medical Preliminary Examination, and must present the said Certificate to the Medical Registrar, in order to Registration.

IV. ENGLISH AND IRISH UNIVERSITY EXAMINATIONS.

The following English and Irish University Examinations will be accepted as exempting from the Medical Preliminary Examination, subject to the following conditions :—

(a) That they include the subjects required under the Regulations of the General Medical Council and prescribed by the Medical Ordinances of the Scottish Universities.

(b) That, where total exemption is claimed, all the required subjects shall have been passed at one or not more than two Examinations ; and that when exemption in one or more subjects is claimed, all the remaining required subjects shall be passed at one or not more than two Preliminary Examinations.

(1) *University of Oxford.*

(a) A pass in Responsions or in Moderations will exempt from the Medical Preliminary Examination, provided that the candidate shall also pass the Scottish Universities Preliminary Examination in English.

(b) A pass in the Oxford Higher Local Examinations will exempt from further examination in all the subjects included.

(c) A pass with credit in the Oxford Senior Local Examination will exempt from further examination in all the subjects included, other than English. In English, when the applicant has only a pass with credit, exemption will be allowed only if Composition has been taken, with Literature or a Literary Subject.

(2) *University of Cambridge.*

(a) A pass in the Previous Examination, if subsequent to Michaelmas Term, 1896, will exempt from the Medical Preliminary Examination. If the pass is prior to that date, the applicant shall also pass the Scottish Universities Preliminary Examination in English.

(b) A pass in the Cambridge Higher Local Examinations will exempt from further examination in all the subjects included.

(c) A pass with credit in the Cambridge Senior Local Examinations will exempt from further examination in subjects (other than English) which are recognised for the Medical Preliminary Examination. For exemption in English, a pass with credit in *English Composition and English Literature*, with either *History of England* (or *History of the British Empire*) or *Geography*, will be accepted.

(3) *Oxford and Cambridge Schools Examination Board.*

Passes for the Higher Certificate will exempt from further examination in all the subjects included.

A pass with credit in *Latin* or *Greek*, for the School Certificate will exempt from further examination in these subjects.

A pass with credit in *Elementary Mathematics* for the School Certificate will exempt from further examination in Mathematics.

A pass with credit in *French* or *German* for the School Certificate will exempt from further examination in these subjects.

A pass for the Lower Certificate in *English*, *History*, and *Geography* will exempt from English in the Medical Preliminary Examination.

A pass in the higher of the two classes in *Latin* or *Greek* for the Lower Certificate will exempt from these subjects in the Medical Preliminary Examination.

A pass for the Lower Certificate in *French* and *German* will exempt from these subjects in the Medical Preliminary Examination.

(4) *University of London.*

A pass in the Matriculation Examination will exempt from further examination in all the subjects included.

(5) *Universities of Manchester, Liverpool, Leeds, Sheffield, and Birmingham.*

(a) *Joint Matriculation Examination.*—A pass will exempt from the Medical Preliminary Examination, provided that the whole Examination has been passed, as required for admission to the Medical Faculties of these Universities.

(b) *Higher Certificate Examination.*—A pass in *English*, provided it includes both *English Literature* and *History*, will exempt from English in the Medical Preliminary Examination; but *one* of these may have been taken in the School Certificate Examination.

Passes in *Latin, Greek, Mathematics (Pure or Higher Pure), French, or German* will exempt from the same subjects in the Medical Preliminary Examination.

(c) *School Certificate Examination.*—A pass with credit in any subject recognised for the Medical Preliminary Examination will exempt from that subject.

(6) *University of Durham.*

The Matriculation Examination will be accepted *pro tanto*.

(7) *University of Bristol.*

The Matriculation Examination will be accepted, when candidates have taken all the subjects required by the Medical Ordinances of the Scottish Universities.

(8) *Queen's University of Belfast.*

A pass in the Matriculation Examination will exempt from the Medical Preliminary Examination.

V. THE BRITISH EMPIRE OVERSEAS.

Candidates from British Dominions, Colonies, Dependencies, and Protectorates, who present evidence that they have passed all the Preliminary Examinations prescribed for students proceeding to graduation in Medicine in a University or College empowered to confer degrees in the Dominion, Colony, Dependency, or Protectorate from which they come, will be exempted from the Medical Preliminary Examination, provided:—

- (1) That their Examination includes all the subjects prescribed

by the Medical Ordinances of the Scottish Universities, and that they are recognised by the General Medical Council.¹

(2) That there is evidence to show that their knowledge of English is sufficient to enable them to follow the Courses of Instruction with profit.

Note.—Candidates whose native language is other than English, who have not passed in English at the Intermediate or Final Examination for a Degree in Arts, will be required to pass an examination in English, designed to test their ability to understand and use the language sufficiently for the purpose of study at a Scottish University. The written examination in English will consist of one paper of three hours. The paper will consist of (1) an essay; (2) questions on the substance of three books, including an easy play of Shakespeare, a novel, and an essay. In addition to the written part of the examination, there will also be an oral examination, to test the candidate's power of speaking and understanding English.

Prescribed books for 1919-20:—Shakespeare, *Julius Cæsar*; Scott, *Ivanhoe*; Macaulay, *Frederick the Great*.

[*Dates of Examinations—March and September—will be intimated later.*]

VI. FOREIGN COUNTRIES.

Subject to the same provisions as those laid down in Section V for applicants from British Dominions, etc., the French Baccalauréat ès Lettres and Baccalauréat ès Sciences, and Certificates of Maturity, which would admit to the study of Medicine in the Universities of other European countries, will exempt from the Medical Preliminary Examination.

The First Class Certificates of the Anglo-Chinese College, Amoy, will exempt from the Medical Preliminary Examination.

For the Requirements of the CARNEGIE TRUST in respect to Preliminary Education, see Appendix.

¹ The General Medical Council accepts the following Indian University Examinations:—*Calcutta*—Intermediate; *Madras*—Intermediate; *Bombay*—Previous; *Panjab*—Intermediate in Arts or Science; *Allahabad*—Intermediate in Arts. If deficient in a third language, this subject must be passed separately. Special Certificates for Indian Students are issued by these Universities.

Entry for Medical Preliminary Examination.

Each Candidate is required to pay a Fee of 10s. 6d. for each appearance at the Preliminary Examination.

Entries must be made at the Matriculation Office, University (Old) Buildings, between 1st and 5th September (office hours, 10-1) for the Autumn Examinations, and between 26th February and 1st March (10-4) for the Spring Examinations.

∴ Candidates for Examination in Languages other than Latin, Greek, French, or German are required to enter and pay Fees not later than 14th August for the Autumn Examinations, or 13th February for the Spring Examinations. Any later entry must be accompanied by a *Special Late Entry Fee* of 10s.

The Examinations are held in the Examination Rooms, University (Old) Buildings, South Bridge, Edinburgh.

Candidates who cannot pay the Fees personally may transmit them to JAS. DOWIE, University, Edinburgh, by *Money Orders* or *Postal Orders*. If, after payment of the Fee, a Candidate withdraws his name, or fails to present himself at the Examination, he will not receive back the Fee, but will be allowed to appear at a subsequent Examination, without payment of any additional Fee, on condition that he duly enters his name for that Examination. When names are not entered and Fees paid on or before the stated dates, an additional or *Late Entry Fee* of 10s. must be paid before the Candidate can be admitted to Examination. A Candidate must enter his name and pay the Fee, or, when the Fee has been previously paid, obtain a Pass for each periodical Examination at which he desires to appear

Time-Table of Medical Preliminary Examinations for 1919-1920.

Date.		Medical Preliminary Examinations.	Hours.
1919.			
Sept. 12	Fri.	English	9-12
		Latin	3-6
" 13	Sat.	French	3-6
		*French	3-5
" 15	Mon.	Mathematics	3-6
" 16	Tu.	Greek	12-3
		*Greek	12-2
		Indian Vernacular Languages	12-3
" 17	Wed.	German	3-6
		*German	3-5
		Oriental Classical Languages	3-6
		*†Mechanics	3-6
" 18	Thur.	*Moral Philosophy	9-11
		*Natural Philosophy	9-11
		*Logic	2-4
Sept. 29, Mon. RESULTS POSTED TO CANDIDATES (probably).			
1920.			
Mar. 12	Fri.	English	9-12
		Latin	3-6
" 13	Sat.	French	3-6
		*French	3-5
" 15	Mon.	Mathematics	3-6
" 16	Tu.	Greek	12-3
		*Greek	12-2
		Indian Vernacular Languages	12-3
" 17	Wed.	German	3-6
		*German	3-5
		Oriental Classical Languages	3-6
		*†Mechanics	3-6
" 18	Thur.	*Moral Philosophy	9-11
		*Natural Philosophy	9-11
		*Logic	2-4
April 3, Sat. RESULTS POSTED TO CANDIDATES (probably).			

* For Students completing the Examination for M.D. under the Old Regulations.
† Same as Dynamics for Degrees in Arts and Science.

Scottish Universities Entrance Board.

Chairman—Professor JOHN BURNET, University of St Andrews.

Secretary—ANDREW BENNETT.

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FACULTY OF ARTS

DEAN—PROFESSOR SIR RICHARD LODGE, M.A., LL.D.

PROGRAMME OF CLASSES, 1919-1920.

The Classes will be opened as in the following Table. They will close for the Christmas vacation on Friday, 19th December 1919 (Autumn Term), and will reassemble on Tuesday, 13th January 1920, and close on Friday, 19th March 1920 (Spring Term). Classes which are continued in the Summer Term will reassemble on Tuesday, 20th April, and close not later than Friday, 18th June (Summer Term).

A DAILY TIME TABLE OF ARTS GRADUATION CLASSES is given on page 125.
I. DEPARTMENT OF LANGUAGE AND LITERATURE.

CLASSES.	Days of Opening and Hours of Lectures.	Professors and Lecturers.	Class Fees. See also pp. 126 & 128.	See also page
Latin	14 Oct., 10 a.m.	Prof. Richmond	£4	142
Latin (Honours)	16 Oct., 11 a.m.		4	144
Latin Composition (Honours)	16 Oct.		4	144
Latin (Honours Half-Course)	20 Apr., 11 a.m.	Prof. Mair	1	145
Greek	14 Oct., 11 a.m.		2	145
Greek (Honours)	16 Oct., 10 a.m.		4	147
Greek Composition (Honours)	16 Oct.	Prof. Baldwin Brown.	1	147
Greek (Elementary Course)	20 Apr., 9 a.m.		1	147
Greek (Honours Half-Course)	15 Oct., 10 a.m.		3	147
Classical Archaeology (Honours Course)	15 Oct., 5 p.m.	Prof. Grierson, A. Blyth Webster, M.A., George Kitchen, M.A., B.Litt., and Bruce Dickinson, M.A.	2	148
English (First Course)	15 Oct., 4 p.m.		4	153
English (Second Course)	14 Oct., 2 p.m.		4	153
English Literature (Honours Course)	14 Oct., 2 p.m.	Prof. Grierson, A. Blyth Webster, M.A., George Kitchen, M.A., B.Litt., and Bruce Dickinson, M.A.	4	154
English Language (Honours Course)	16 Oct., 3 p.m.		4	156
English Literature (Hons. Half-Course)	20 Apr., 2 p.m.		4	156
			2	156

French (1st Course)	15 Oct., 3 p.m.	Prof. Sarolea and Mary	4	160
French (2nd Course)	14 Oct., 3 p.m.	Barns, M.A., Docteur de	4	160
French (Honours) ³	15 Oct., 4 p.m.	l'Université de Paris	4	162
French Literature (Monday) ³	20 Oct., 3 p.m.		1	160
French History (Wednesday) ³	15 Oct., 3 p.m.		1	160
German (1st and 2nd Courses)	14 Oct., 4 p.m.		4	163
German (Honours) ⁴	16 Oct., 3 p.m.	Otto Schlapp, Ph.D., H.	4	166
German Prose ⁵	15 Oct., 4 p.m.	F. Eggeing, M.A., and	1	163-66
German Literature ^{4, 6}	15 Oct., 3 p.m.	Assistant	1	166
German (Special Tutorial Course)	20 Apr.		2	167
German (Honours Tutorial Course)	14 Oct., 2 p.m.	Ernesto Grillo, M.A.,	4	179
Italian (Graduation Course)	17 Oct., 3 p.m.	D.Litt., LL.D.	2	180
Italian Literature (Friday)	17 Oct., 5 p.m.		2	180
Italian (Elementary) (Friday)	15 Oct., 11 a.m.	B. Sanin Cano, M.A.	4	180
Spanish (Graduation Course)	14 Oct., 5 p.m.		2	181
Spanish (Elementary) (twice weekly)	14 Oct., 4 p.m.	Hugh G. Brennan, M.A.	4	181
Russian (Graduation Course)	14 Oct., 3 p.m.		2	182
Russian (Elementary) (Tuesday and Friday)	15 Oct., 2 p.m.	Prof. Berriedale Keith	3	171
Sanskrit (Junior)	15 Oct., 3 p.m.		4	171
Sanskrit (Senior)	16 Oct., 2 p.m.		1	173
Hebrew (Elementary) (Tuesday and Thursday)	15 Oct., 9 a.m.	Prof. Kennedy	3	173
Hebrew (Junior)	15 Oct., 10 a.m.		4	173
Hebrew (Senior)	17 Oct.		4	173
Hebrew (Honours)			4	173
Aramaic (Honours) (Tuesday and Thursday)	14 Oct., 2 p.m.	Edward Robertson, M.A.,	2	174
Arabic (Junior) (including Modern Arabic) ⁷	14 Oct., 3 p.m.	B.D., D.Litt.	3	175
Arabic (Senior) (Tues., Thur., Fri.)	Oct., 4 p.m.		4	175
Arabic (Honours)	14 Oct., 4 p.m.		4	175
Celtic	20 Oct., 3 p.m.	Prof. Watson	2	177
Celtic (Advanced)			1	178

¹ This Course may be divided into three Half-Courses. Fee for each, £2, 2s.

² Five Shillings Entrance Fee for Non-matriculated Students (see p. 16). ³ Lectures given in French. 4 Lectures given in German.

⁵ First Course, Thursday, 4 p.m.; Second Course, Wednesday, 4 p.m.; or Honours Course, Monday, 3 p.m.

⁶ First Course, Tuesday, 4 p.m.; Second Course, Thursday, 4 p.m.; or Honours Course, Wednesday, 3 p.m.

⁷ Days and hour to be fixed to suit students.

⁸ In this Class two hours per week will be devoted to Classical Arabic and one hour to Modern Arabic (Egyptian).

¹⁰ When taken as a Graduation Course, £4, 4s.

II. DEPARTMENT OF MENTAL PHILOSOPHY.

CLASSES.	Days of Opening and Hours of Lectures.	Professors and Lecturers.	Class Fees. See also pp. 126 & 128.	See also page
Logic and Philosophical Introduction	14 Oct., 1 p.m. ¹	} Prof. Kemp Smith	£4	184
Advanced Metaphysics (Honours Course) ²	21 Oct., 3 p.m. ³		4	185
Ancient Philosophy—(A. Introductory)— Section (1) (<i>Tuesday and Thursday</i>)	29 Jan., 12 noon	} R. P. Hardie, M.A.	1	186
Section (2) (<i>Wednesday and Friday</i>)	4 Feb., 11 a.m.		1	186
Ancient Philosophy—(B. Honours Half- Course)	15 Oct., 11 a.m.	} Prof. James Seth	2	186
Advanced Logic (Honours Half-Course)	15 Jan., 11 a.m.		2	187
Moral Philosophy (First Ordinary Course)	14 Oct., 10 a.m.	} Henry Barker, M.A.	4	187
Moral Philosophy (Honours Course)	15 Oct., 12 noon ⁴		4	188
Moral Philosophy (Social Ethics)	15 Oct., 10 a.m.	} James Drever, M.A., B.Sc., D.Phil.	4	188
Moral Philosophy (Honours Half-Course)	21 Apr., 12 noon		2	188
Psychology	15 Oct., 12 noon	} Prof. Nicholson	4	189
Advanced Psychology (Honours Course)	15 Oct., 10 a.m.		4	190
Political Economy ⁵	14 Oct., 9 a.m.	} J. B. Guild, M.A.	4	192
Political Economy (Honours Course)	16 Oct., 11 a.m.		4	194
Political Economy (Elementary Course) ⁶	20 Apr., 4 p.m.	} G. A. Carse, M.A., D.Sc.	1	197
Statistics and Mathematical Economics	14 Oct., 9 a.m.		2	193
Education (Theory and History of)	15 Oct., 9 a.m.	} Prof. Darroch	4	200
Education (Advanced Course)	15 Oct., 11 a.m.		4	201
Education (Modern Systems and Problems)	21 Apr., 10 a.m.	} D. Kennedy-Fraser, M.A., B.Sc.	2	202
Natural Theology (Gifford Lectureship)	Dates to be announced.		2	202
		} Prof. G. F. Stout	Free.	

PROGRAMME OF CLASSES

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III. DEPARTMENT OF SCIENCE.

Mathematics (First Ordinary Course)	14 Oct., 9 a.m.	Professor Whittaker and Lecturers	4	4	207
Mathematics (2nd Ord. & 1st Actuarial Course)	14 Oct., 12 noon		4	4	207
Mathematics (Inter. Hons. & 2nd Actuarial)	15 Oct., 11 a.m.		4	4	209
Mathematics (Adv. Honours and Laboratory)	15 Oct., 10 a.m.		4	4	209
Mathematics (Additional Summer Course)	21 Apr., 11 a.m.		2	2	210
Mathematics (Map Projections)	20 Apr., 4 p.m.	E. M. Horsburgh, M.A., D.Sc. A. E. Sprague, M.A., D.Sc., P.F.A., F.I.A.	2	2	208
Mathematics (Post Graduate Course)	14 Oct., 9 a.m.		4	4	210
Mathematics, Technical : First Course	14 Oct., 11 a.m.		4	4	208
Mathematics, Technical : Second Course	Apr., 5 p.m.		2	2	209
Actuarial Science (First Course)	Apr., 5 p.m.		2	2	209
Applied Mathematics (Honours Courses) :—		C. G. Knott, D.Sc., LL.D.			
Dynamics (Inter. Hons. Course) (3 Terms)	15 Oct., 12 noon		4	4	211
Hydrodynamics & Elasticity (Adv.) (Autumn)	Oct., 11 a.m.		2	2	212
Waves in Matter and Ether (Adv.) (Spring)	Jan., 11 a.m.		2	2	212
Kinetic Theory of Gases and Radiation (Adv.) (Summer)	Apr., 11 a.m.		2	2	212
Quaternions (Adv.) (Summer)	21 Apr., 9 a.m.	Prof. Barkla and Lecturers	2	2	212
Natural Philosophy (Intermediate Honours) :—	15 Oct., 11 a.m.		2	2	212
General Physics (Autumn)	15 Oct., 9 a.m.		5	5	212
Heat (Spring)	14 Jan., 9 a.m.		2	2	214
Electricity (Summer)	21 Apr., 9 a.m.		2	2	214
Optics (Autumn and Spring)	14 Oct., 9 a.m.		2	2	214

¹ In Session 1920-21 the hour will be changed to 10 a.m.

² This Course may be divided into two Half-Courses. Fee for each, £2, 2s.

³ In Session 1920-21 the hour will be changed to 12 noon.

⁴ In Session 1920-21 the hour will be changed to 11 a.m.

⁵ Or two Half-Courses, £2, 2s. each. The £4, 4s. Fee also covers the Summer Tutorial Class, whether taken before or after the Ordinary Course.

⁶ A Tutorial Course of Twenty Lectures. The above Fee is deducted from the Fees of Students who subsequently take the Ordinary Class. No Fee is payable by Students who have already taken the Ordinary Class.

⁷ 5s. Entrance Fee for Non-matriculated Students (see page 10).

⁸ This Fee covers the Lectures and the fifty hours Laboratory Course.

III. DEPARTMENT OF SCIENCE—continued.

CLASSES.	Days of Opening and Hours of Lectures.	Professors and Lecturers.	Class Fees. See also pp. 126 & 128.	See also page
Natural Philosophy (Advanced Honours) :—				
Electricity (1) (Autumn)	15 Oct., 12 noon	Prof. Barkla and Lecturers	£2 2	214
Electricity (2) (Spring)	13 Jan., 11 a.m.		2 2	214
Electricity (3) (Summer)	21 Apr., 12 noon		2 2	214
Heat (Autumn and Spring)	14 Oct., 12 noon		2 2	214
Physical Optics (Spring and Summer)	Feb., 12 noon	Prof. Sampson	2 2	214
General Physics (Summer)	21 April, 10 a.m.		see p. 82	...
Practical Physics (Ordinary Class)	20 Oct., 10 a.m.		see p. 82	...
Practical Physics (Inter. and Adv.)	14 Oct.,		4 4	217
Astronomy ¹	14 Oct., 3 p.m.	Dr L. Dobbin and Prof. Walker	4 4	219
Chemistry ² 1st Course	15 Oct., 10 a.m.		4 4	219
Chemistry ² 2nd Course	14 Oct., 10 a.m.	Prof. Walker and Lecturers	4 4	82
Chemical Laboratory	14 Oct.		4 4	220
Zoology	14 Oct., 1.30-3 p.m.	Prof. Ewart and Ashworth	2 2 ³	220
Practical Zoology	15 Oct., 12 noon		2 2 ¹	220
Cytology and General Embryology	Jan.	J. Beard, D.Sc.	2 2 ¹	...
Embryology of Organs			2 2	...
Morphology of Vertebrates ³		Prof. Ashworth	3 3 ³	220
Invertebrate Zoology (Mon., Wed., and Fri.)	21 Apr., 2 p.m.		6 6 ⁶	221
Botany (Tues. and Thurs)	14 Oct., 2 p.m.	Prof. Balfour and J. L. S. Smith, M.A., B.Sc.	4 4	222
Geology	15 Oct., 4 p.m.		4 4 ⁷	222
Practical Class	15 Oct., 2-4 p.m.	Prof. Jehu and Lecturers	...	...
Geography (See under History and Law).	...	...	Free.	...
Anthropology and Prehistoric Archaeology	...	...	...	...

IV. DEPARTMENT OF HISTORY AND LAW.

History, British	14 Oct., 11 a.m.	{ Prof. Sir Richard Lodge	4	4	232
History (Hons.—History of Europe, 1715-1815)	21 Oct., 10 a.m.		4	4	234
Constitutional Law and Constitutional History	15 Oct., 5 p.m.		4	4	235
(Hons.—British Constitution from 1688)	15 Oct., 4 p.m.	{ Prof. Millar	4	4	235
Scottish History (Honours Course) ⁹	15 Oct., 3 p.m.		4	4	236
Scottish History (Honours Course)	15 Oct., 4 p.m.	{ Prof. Hannay	2	2 ⁴	236
Paleogeography	16 Oct., 4 p.m.		2	2 ⁴	236
Ecclesiastical History (Honours)	16 Oct., 10 a.m.	{ Prof. Mackinnon	4	4	237
Ecclesiastical History (Advanced)	20 Oct., 11 a.m.		4	4	237
Economic History	21 Oct., 9 a.m.		2	2	238
Economic History (Honours)	15 Oct., 5 p.m.	{ J. F. Rees, M.A.	4	4	194
British History to 1307 (Hons. Half-Course)	15 Oct., 3 p.m.		4	4	196
British History, 1485-1660 (Honours Half-Course)	15 Oct., 12 noon		2	2 ¹⁰	244
Britain in the 18th and 19th Centuries ¹¹	21 Apr., 10 a.m.	{ D. P. Heatley	2	2 ¹⁰	244
Political Science (Honours Half-Course)	22 Apr., 10 a.m.		1	1 ⁴	244
Political Science (Honours Half-Course)	8 Jan., 12 noon		2	2 ¹⁰	243
Politics (Elementary)	21 Apr., 12 noon	{ John Ewing, M.C., M.A.	2	2 ¹⁰	243
Colonial and Indian History ⁹	7 Jan., 12 noon		1	1 ⁴	243
Colonial and Indian History (Honours)	14 Oct., 10 a.m.		4	4	240
	14 Oct., 11 a.m.		4	4	242

¹ With Practical Class at the Royal Observatory, Blackford Hill, Friday, 5-7.

² Qualifying, along with a Course in the Chemical Laboratory, for the examination in Chemistry.

³ Besides charge of 10s. for Laboratory Expenses.

⁴ Five Shillings Entrance Fee for Non-matriculated Students (see page 16).

⁵ Held in alternate years. Next Course in 1920.

⁶ Besides charge of 5s. for Laboratory Expenses.

⁷ Fee for Prof. Hannay's Honours Course and the Course in Paleogeography, if taken in one year, £5, 5s.

⁸ Counts as a Graduation Subject only when taken after British History.

⁹ Fee for whole Course, if paid at the beginning of first Half, £3, 3s.

¹¹ Mackay Lectures. Free to Members of the History Classes.

IV. DEPARTMENT OF HISTORY AND LAW—continued.

CLASSES.	Days of Opening and Hours of Lectures.	Lecturers.	Class Fees. See also p. 126.	See also page
Roman Law	15 Oct., 9 a.m.	Prof. Mackintosh	£4 4 ¹	219
Public Law	13 May, 9 a.m.	Prof. Sir Ludovic J. Grant, Bt.	2 2	249
Mercantile Law	15 Oct., 2 p.m.	Henry Aitken, K.C.	4 4	249
Industrial Law (40 Lectures)	15 Oct., 5 p.m.	Prof. Laird	4 4	250
Accounting and Business Method	13 May, 5 p.m.	Prof. Laird	2 2	271
Organisation of Industry and Commerce	14 Oct., 9 a.m.	Prof. Laird	4 4	...
Banking (30 Lectures: <i>Theor. and Pract.</i>)	14 Oct., 5 p.m.	Prof. Laird	4 4	...
Fine Art	14 Oct., 5 p.m.	Prof. Laird	4 4	...
Classical Archaeology (Honours Course)	14 Oct., 5 p.m.	Allan McNeil, S.S.C.	1 1 ²	272
Ancient History ¹ (Ordinary Course)	15 Oct., 3 p.m.	Prof. Baldwin Brown	4 4	244
Ancient (Roman) History (Hons. Half-Course)	15 Oct., 5 p.m.	Prof. Baldwin Brown	4 4	148
Ancient (Greek) History (Hons. Half-Course)	14 Oct., 12 noon	Prof. Baldwin Brown	4 4	238
Geography	14 Oct., 9 a.m.	A. F. Giles, M.A.	4 4	149
Economic Geography, I.	20 Apr., 9 a.m.	A. F. Giles, M.A.	2 2	149
Economic Geography, II.	15 Oct., 4 p.m.	A. F. Giles, M.A.	2 2	223
History of Geography	Feb., 4 p.m.	G. G. Chisholm, M.A., B.Sc.	4 4	224
Historical Geography	Feb., 9 a.m.	G. G. Chisholm, M.A., B.Sc.	2 2	225
Economic Ethnography	15 Oct., 3 p.m.	Alice B. Lennie, M.A., B.Sc.	2 2	227
Economic Geography (Honours Course)	Jan., 3 p.m.	Alice B. Lennie, M.A., B.Sc.	2 2	228
Economic Geography (Honours Course)	15 Oct., 2 p.m.	G. G. Chisholm, M.A., B.Sc.	2 2	229
Economic Geography (Honours Course)	8 Jan., 3 p.m.	G. G. Chisholm, M.A., B.Sc.	4 4	229

¹ Fee for Autumn and Spring Terms. For full year, £5. 5s.
² Five shillings Entrance Fee for Non-matriculated Students (see page 16).

at a fee of £1. 1s. per term (as Introductory Half-Courses for Honours) (see page 16).

Century B.C.; Spring Term, Roman Republic; Summer Term, Roman Empire to 300 A.D. Such attendance does not qualify for graduation (see pages 160 and 246).

separately, Sixth to Third

DAILY TIME-TABLE OF ARTS CLASSES.¹

ORDINARY COURSES.

9-10	10-11	11-12	12-1	1-2	2-3	3-4	4-5	5-6
Political Econ. Education. Mathematics (1st) Roman Law. Hebrew (Jun.) ² Elem. Pol. Econ. (Summer) Econ. Geog. II.	Latin. Chemistry (1st). Chemistry (2nd). Hebrew. Moral Phil. (1st). Moral Phil. (2nd). Colonial and Indian Hist. Eccles. History.	Greek. Natural Philos. British History. Ancient Philos. ² (Spring). Spanish.	Mathematics (2nd). Psychology. Ancient History. Politics (Elem.) ² (Spring). Ancient Philosophy ² (Spring).	Logic. Zoology (1.30-3). Public Law. Geology (2nd) (2-4). Arabic (Jun.) ² Sanskrit (Jun.) Italian. Ethnology.	English (2nd). Botany. Public Law. Geology (2nd) (2-4). Arabic (Jun.) ² Sanskrit (Jun.) Italian. Ethnology.	Astronomy. French (1st). French (2nd). Celtic (Adv.) ² Sanskrit (Sen.). Arabic. Fine Art. Scottish Hist. Hist. of Geog. Historic. Geog. (Spring).	English (1st). German (1st). German (2nd). Celtic (1st and 2nd). Geography. Russian.	Constit. Law & Constit. Hist. Economic Hist. Mercant. Law. Indust. Law. Banking. ²

HONOURS COURSES.

Autumn and Spring.

Ancient (Roman) History (Autumn). General Physics (Autumn). Heat (Spring). Optics (Autum and Spring). Eccles. History (Adv.).	Greek. Hebrew. Mathematics (Advanced). History. Psychology.	Latin. Ancient Philos. Logic (Advanced). (Spring). Eccles. Hist. Polit. Economy. Education (Adv.). Mathematics (Intermediate). Applied Math. Electricity (Spring).	Applied Mathematics (Intermediate). Electricity (Autumn). Physical Optics. Political Science (Spring). History (Mr Heatley). (Autumn). Moral Philosophy.	English Lit.	English Lang. German. Metaphysics (Advanced). Geography. Econ. History.	French. Arabic. Constitutional History. Scottish Hist.	Classical Archæology.
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Summer.

Anc. (Greek) Hist. Quaternions. Electricity (Intermediate).	Greek. General Physics. (Advanced). History (Mr Heatley).	Latin. Mathematics (Intermediate). Applied Math. (Advanced).	Applied Mathematics (Intermediate). Political Science. Moral Philosophy.	English Lit.	Statistics.
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¹ For hours at which Practical Classes are held, see under "Courses of Instruction."

² Non-Graduation.

MATRICULATION.

Matriculation consists in paying annually an entrance fee to the University, and in inscribing the name in the Students' Album.

The Matriculation Fees are :—

For the Academic Year, 1st October to 1st October . . . £1 1 0

For the Summer Session only, 1st April to 1st October . . . 0 10 6

Note.—Candidates for Examination or for Graduation must pay the £1, 1s. Fee, unless previously matriculated for the whole year.

Students who do not intend to graduate in Arts may attend any of the classes on payment of the Matriculation and the Class Fees, without having passed any Preliminary Examination. Those who wish their classes to count for graduation must pass the Preliminary Examination.

Entrance Fee in lieu of Matriculation for each of certain Courses, *specified in the foregoing Programme of Classes*, when not taken for Graduation . . . £0 5 0

Payment of this fee does not entitle a Student to a Class Certificate, nor confer any other University privilege.

CLASS FEES IN THE FACULTY OF ARTS.

All students who began their curriculum in any academic year before 1912-13 continue to pay the normal class fees as they have been fixed hitherto (see Programme of Classes, pages 118-124).

All students who began their curriculum in the academic year 1912-13, or any subsequent year, and who intend to pursue a regular course with a view to graduation in Arts, pay an Inclusive Fee in place of the fees for separate classes.

The Inclusive Fee for the curriculum for the Ordinary M.A. Degree is thirty guineas, payable in three annual instalments of ten guineas each.

The Inclusive Fee for the curriculum for the Honours M.A. Degree is forty guineas, payable in four annual instalments of ten guineas each.

The Inclusive Fee for the curriculum for the combined Degrees of M.A. and B.Sc. (in Pure Science, Agriculture, Engineering, or Forestry) is seventy-five guineas, payable in five annual instalments of fifteen guineas each.

The Inclusive Fee for the curriculum for the combined Degrees of M.A. and LL.B. is fifty guineas, payable in five annual instalments of ten guineas each.

The Inclusive Fee for the curriculum for the combined Degrees of M.A. and B.L. is forty-five guineas, payable in four annual instalments of ten guineas each, and a fifth instalment of five guineas.

All fees, whether instalments of an Inclusive Fee or normal class fees, are payable before attendance on classes begins.

No student who began his curriculum in the academic year 1912-13, or any subsequent year, will be admitted to a degree examination in any year, until he has paid in full the instalment, if any, of the Inclusive Fee payable in respect of that year and of every preceding year of his curriculum.

No student who began his curriculum in the academic year 1912-13, or any subsequent year, will be admitted to graduation until the whole of the Inclusive Fee has been paid.

The above Inclusive Fee will admit to all classes which are necessary or desirable as parts of a curriculum leading to the M.A. Degree, and are approved as such by the Official Advisers, subject to the consent of the Dean of the Faculty.

A student may attend a non-graduating class, or any class in addition to those approved as necessary or desirable parts of a curriculum leading to the degree, on payment of the normal class fee.

A student who has attended a class or classes which did not qualify for graduation, and has subsequently obtained leave to count such attendance as qualifying, shall be allowed to deduct the fees paid for such classes from the first annual instalment of his Inclusive Fee.

The Inclusive Fee for the Ordinary Degree of M.A. will not cover second attendance at any laboratory or practical class: it will cover second attendance at one other class, but it will not cover a third or subsequent attendance at any class. The fees for such second or subsequent attendances remain as before (see page 128).

A student who has paid one or more of the annual instalments of the Inclusive Fee at one Scottish University, and completes his curriculum in this University, shall be required to pay the remainder of the annual instalments to this University, and these shall cover admission to such classes as may be approved by the Official Advisers and the Dean as necessary or desirable to complete his curriculum for the Degree; provided always (1) that the amount of at least one annual instalment shall be paid to this University; (2) that before he receives his Degree therein, he shall present evidence that he has paid in all an amount not less than the Inclusive Fee; and (3) that the number of classes taken in this University shall be proportionate to those instalments of the Inclusive Fee which are paid to this University.

A student who presents a certificate that, before beginning his course of study for the Degree of M.A. in this University, he has attended a course of instruction in Arts, given in a University specially recognised by the University Court, if the said course of instruction is accepted as exempting him from any part of his curriculum, shall be entitled to a deduction from his Inclusive Fee of the amount paid for such course of instruction, being

not in excess of the amount of the normal fee for the corresponding course given in the University, nor in excess of the sum of four guineas for any one subject: provided always that he has not already attended the latter course as part of his curriculum in this University.

FEEES FOR SECOND, THIRD, AND SUBSEQUENT ATTENDANCES, ETC.

1. *Full Ordinary or Honours Graduation Lecture Courses*:—Second attendance, £3, 3s.; third or subsequent attendances, £1, 1s.
2. Ordinary or Honours Graduation Half-Courses at £2, 2s., or other Courses (except Laboratory and Practical Courses) at that fee; second attendance, £1, 11s. 6d.; third or subsequent attendances, £1, 1s.
3. When fee for first attendance is less than £2, 2s., no reduction for second or subsequent attendances.
4. No reduction for Laboratory or Practical Courses.
5. Fee for attendance on a half Ordinary or half Honours Course, or for any part thereof, £2, 2s.

ENTRY INTO CLASSES.

Every person who enters a class-room on the opening day of any Course in the Faculty of Arts must present to the Servitor in charge—

A Class Ticket, or the corresponding counterfoil from the Fee Office;

Or a Pass from one of the Official Advisers;

Or a Pass signed by the Professor or Lecturer giving the Course;

Or a Pass from the Secretary.

Or, in the case only of students whose selection of classes for the year is conditional on results of the Autumn (Sept.-Oct.) degree examinations, a Permit for the opening days of classes, obtainable at the Matriculation Office.

Any student who begins to attend after the opening day must give a satisfactory excuse for his late entry. No Professor or Lecturer will in any term admit a student to a Qualifying Course in Arts more than two weeks after the advertised day of opening without the express permission of the Faculty.

Note.—Any Introductory Lecture which is open to the general public will be specially advertised, or otherwise announced. When such Lecture is given on the first day, the opening day for the purpose of the above Regulations will be the second day on which the Class meets.

OFFICIAL ADVISERS.

Mr J. MILL, Mr R. P. HARDIE, and Dr KNOTT (see IV., below).

I. Graduation Students entering on their First Year.

Intending Students who have completed the Preliminary Examination and propose to enter the Faculty of Arts in October 1919, are requested to apply to the Clerk, Matriculation Office, for a copy of the "Schedule of Information for the Official Advisers in the Faculty of Arts." This Schedule must be filled up and returned to the Clerk, Matriculation Office, not later than 27th September 1919.

Every Graduation Student of the first year should consult the Official Advisers, between the following dates, if possible:—3rd October to 11th October from 9.30 A.M. to 12.30 P.M.; and should obtain (1) their approval of his proposed curriculum as a whole, and (2) an Official Advisers' Pass to be presented at the Class-Fee Office for the classes to be taken during the academic year 1919-20.

II. Graduation Students already in Attendance.

Graduation Students who are finishing their first year, and students of other years than the first, should consult the Official Advisers *before the Summer Vacation*, and obtain from them passes for their classes for the next academic year.

Students who, owing to the necessary examinations not having been passed, have postponed the fixing of their classes for 1919-20, may consult the Official Advisers daily between 2.30 P.M. and 4.30 P.M. from 3rd October to 11th October 1919. *Students who are resident in Edinburgh are requested to come before 8th October.*

III. Non-Graduating Students.

Students not studying for a Degree are not required to fill up the Schedule of Information, but may consult the Official Advisers.

• With the exceptions stated below—IV.—students whose surnames begin with the letters A-L should, in the first instance, consult Mr Hardie (Conveyancing Retiring Room), and with the letters M-Z, Mr Mill (Latin Retiring Room).

IV. Candidates for Honours in Mathematics, and Arts Students who are also Science or Medical Students.

Candidates for Honours in Mathematics and Natural Philosophy, and Arts Students who are also, or intend to become, students in the Faculty of Science, or in the Faculty of Medicine, should consult Dr Knott (Applied Mathematics Retiring Room, Physical Laboratory, University), during the periods stated above from 9.30 to 1.

GENERAL ADVICE TO STUDENTS REGARDING CURRICULA, ETC.

1. Every Student intending to graduate in Arts is advised to make himself familiar with the Regulations before commencing his Course. In particular, he should make sure, in the first place, that he has complied with all the conditions of the Preliminary Examination. He should then choose a Curriculum to suit his requirements; see that it satisfies the regulations, and is approved by the Official Advisers; that he has all the qualifications necessary for entering the classes selected; that his studies are spread over the required number of years; and that in the subjects of any one year there will be no clashing between the dates of examinations (see p. 253).

2. Honours Students, and students studying for special examinations, should, as early in their Course as possible, consult the Professors of the Special Subjects which they are to study. Students who desire to obtain information or advice with regard to the India or Home Civil Service, or other posts in the public service, should apply to the Conveners of the Appointments Committee (Professors Sir Richard Lodge and Berriedale Keith), or to the Official Advisers (see also APPENDIX).

3. For special and detailed advice as to each subject, students may consult the several Professors or Lecturers *before entering upon their Curricula*. In particular, those who intend proceeding afterwards to Degrees in Divinity, Law, Medicine, Science, or Music, should, in cases of doubt, consult the Deans of these Faculties as to the most appropriate Arts Curriculum.

Students who do not intend to graduate in Arts may attend any of the Classes, on payment of the Matriculation and the Class Fees, without having passed any Preliminary Examination. Those who wish their Classes to count for Graduation must pass the Preliminary Examination.

Mrs Garden Blaikie, M.B., Ch.B. (Cambridge Teacher's Certificate of Distinction), who has been appointed Lady Warden, will attend in her office in the University New Buildings, from 10 to 12.30 and from 2 to 4, from 1st October and throughout the terms of the academical year. Women Students of all Faculties are desired to see the Lady Warden at her office during the first fortnight of the Session.

GRADUATION IN ARTS.

Degree of Master of Arts.

N.B.—These Regulations are set forth in Ordinance No. II of the University Court of the University of Edinburgh.

ACADEMICAL YEAR.

I. The academical year shall commence on the first day of October. It shall include at least twenty-five teaching weeks, and shall be divided into three periods. The days on which classes shall open and close in each period shall be determined by the Senatus with the approval of the University Court. For the purpose of reckoning duration of study in any subject, an academical year shall be constituted by attendance on at least one course of study in each of the three periods aforesaid, but it shall be in the power of the Senatus, with the approval of the University Court, to accept attendance on at least one course of study in each of two of the periods aforesaid, as completing an academical year.

II. The Curriculum for the degree of Master of Arts (M.A.) shall extend over not less than three academical years.

Preliminary Examination.

III., IV., V.—See earlier section, pages 87 to 106.

Ordinary Degree.

VI. The Curriculum for the Ordinary Degree shall consist of five subjects, of which two subjects shall each be studied for two academical years; and the Degree Examinations in these two subjects shall be on a higher standard than the Degree Examinations in the other three subjects; provided that it shall be in the power of the Senatus, with the approval of the University Court, to reckon courses in two cognate subjects (and, wherever so determined by the Senatus and University Court, studied in separate academical years) as two courses in one subject; the Examinations in the cognate subjects being on the same standard as if each of the subjects had been taken in a single course.

VII. (1) Each of the subjects must be studied in a full course, but two half-courses in one subject or in two cognate subjects, or a qualifying Honours course as hereinafter defined, may be held to be equivalent to a full course in one subject in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose by the same authority.

(2) A full course shall consist of not less than seventy-five meetings of the whole class on separate days, with additional meetings for tutorial

or other supplementary instruction where such is provided: but the Senatus, with the approval of the University Court, may, in special cases, having regard to the nature of the subjects, sanction full courses of less than seventy-five meetings of the whole class, with additional meetings for tutorial or other supplementary instruction.

A half-course shall consist of not less than forty meetings of the whole class on separate days, with additional meetings for tutorial or other supplementary instruction where such is provided; but the Senatus, with the approval of the University Court, may, in special cases, having regard to the nature of the subjects, sanction half-courses of less than forty meetings of the whole class, with additional meetings for tutorial or other supplementary instruction.

(3) Where a subject is taught in a practical class, as well as in a systematic class, the Senatus, with the approval of the University Court, shall regulate the course of study and determine the relative proportion of lectures and laboratory or practical work.

VIII. The Departments of Study for graduation in Arts with or without Honours shall include the following subjects, with such additions or modifications as may hereafter be made by the Senatus, with the approval of the University Court; provided always (1) that no subject shall be included unless a qualifying course shall have been established therein; and (2) that the University Court shall communicate to the General Council all such additions and modifications relating to the definition and grouping of the subjects of the several Departments of Study, their selection for the Curriculum, and their classification as cognate; and any representation made thereon by the General Council within two months from the date of such communication shall be taken into consideration by the University Court before any such addition, modification, selection or classification is approved:—

1. *Language and Literature.*

Latin.	German.	Hebrew.
Greek.	Italian.	Arabic.
English	Spanish.	Syriac.
French.	Sanskrit.	Celtic.

2. *Mental Philosophy.*

Logic and Metaphysics.	Education (Theory and History of).
Moral Philosophy.	Philosophy of Law.
Political Economy.	

3. *Science.*

Mathematics.	Zoology.
Natural Philosophy.	Botany.
Astronomy.	Geology.
Chemistry.	Geography.

4. *History and Law.*

History.
Archæology and Art (History
of).
Constitutional Law and
History.
Ancient (Greek and Roman)
History.

General Jurisprudence.
Roman Law.
Public International Law.
International Private Law.
Geography.

IX. The Senatus, with the approval of the University Court, shall have power to make from time to time regulations regarding the definition and grouping of the subjects in each of the Departments of Study, the selection of subjects for the Curriculum, their classification as cognate, and the order in which they are to be studied, and also regarding the standards of the Degree Examinations and the conditions of admission thereto.

X. Candidates who produce certificates that they have satisfied all the conditions prescribed by this Ordinance and who have passed the necessary examinations, shall be entitled to receive the ordinary Degree of Master of Arts on payment of the fees required, and shall receive a Diploma wherein shall be set forth the subjects in which they have passed.

Degree with Honours.

XI. (1) The Degree of Master of Arts may be taken with Honours in any group (consisting of a subject or subjects) in which Honours classes, conducted by at least two separate Professors or Lecturers, have been established.

(2) Subject to the provision specified in Section VIII. (2) hereof the Senatus, with the approval of the University Court, shall have power to make from time to time regulations regarding the definition and grouping of the subjects in each of the recognised groups, the selection of subjects for the Curriculum, their classification as cognate, and the order in which the subjects are to be studied, and also regarding the standard of the Honours Examinations and the conditions of admission thereto.

(3) Every candidate shall take up at least two subjects outside his Honours Group.

(4) Every candidate shall attend seven classes, taking at least four classes (two of which at least shall be Honours classes under separate Professors or Lecturers) in his Honours Group.

(5) A candidate who has obtained Honours in any one group may, under such regulations as may be laid down from time to time by the Senatus, with the approval of the University Court, present himself again for examination in a second Honours Group. In such a case, if the two groups do not overlap, he shall not be required to take any subject or class outside his Honours Groups.

(6) The examination in the subjects comprised in the candidate's Honours Group or Groups shall be of a higher standard than that required for the ordinary Degree of Master of Arts. In his other subjects the standard shall be that required for the ordinary Degree.

(7) The provisions of Section VII. of this Ordinance shall apply to candidates for Honours ; but, in their case, not fewer than fifty meetings of the whole class, on separate days, extending over at least two periods of the academical year, shall constitute a full course for an Honours class ; and not fewer than twenty-five meetings of the whole class on separate days, extending over at least one of the periods of the academical year, shall constitute a half-course ; and two half-courses so sanctioned shall be held to be equivalent to a qualifying Honours course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose by the same authority.

XII. Where a subject is taught in a practical class, as well as in a systematic class, the Senatus, with the approval of the University Court, shall regulate the course of study, and determine the relative proportion of lectures and laboratory or practical work.

XIII. (1) In each group there shall be three grades of Honours, to be denominated respectively the First, Second, and Third Class. The names of the candidates entitled to Honours in each class shall be arranged in alphabetical order.

(2) For the Degree of Master of Arts with Honours the graduates shall receive a Diploma setting forth the subjects in which he has passed with Honours, and those in which he has passed in the standard required for the Ordinary Degree.

(3) A candidate for the Degree of Master of Arts with Honours, who has failed to be placed in any class, may, provided that in the opinion of the Examiners he has given evidence of sufficient attainments in any subject for the ordinary Degree of Master of Arts, receive from them a certificate of having passed in such subject, which shall count *pro tanto* as part of the examination required under the regulations for the ordinary Degree of Master of Arts.

Boards of Studies.

XIV. The Senatus shall from time to time institute Boards of Studies corresponding in general to the Departments of Study or to any two or more of such Departments enumerated in Section VIII. of this Ordinance.

XV. Each Board of Studies shall consist of such Members of the Senatus and Lecturers in the University as the Senatus may from time to time select, and the Senatus shall appoint one of the Members of the Board to be Convener thereof.

XVI. In the course of each academical year each Professor and Lecturer in each of the said Departments of Study shall submit to the proper Board of Studies for its approval (a) a syllabus of the subjects and books proposed for the work of his class for the next academical year ; and (b) a syllabus of the subjects and books to be prescribed for the Examinations for the Ordinary Degree of Master of Arts in the next academical year, and also for the Honours Examinations in the academical year next but one. As soon as such approval has been given, each syllabus shall be transmitted to the Faculty of Arts for its consideration. Each syllabus, with such observations as the Faculty of Arts may see fit to make thereon, shall then be transmitted to the Senatus for its sanction.

XVII. Each Board of Studies shall in like manner make recommendations through the Faculty of Arts to the Senatus in regard to the Honours courses which may be sanctioned under the provisions of this Ordinance, and the lectures which may be given on special subjects.

XVIII. The Principal and the Dean of the Faculty of Arts shall be *ex officio* members of each Board of Studies. The convener shall preside, and, in his absence, each meeting shall appoint its own chairman, and every chairman shall have a deliberative, and, in cases of equality, a casting vote.

General.

XIX. A candidate for the Degree of Master of Arts shall not be deemed to have attended a class as part of the Curriculum for that Degree who does not present a certificate bearing not only that he has regularly attended the class, but also that he has duly performed the work thereof.

XX. A student, who has given attendance at classes recognised as qualifying for graduation in Arts during one or more academical years in any one or more of the other Scottish Universities, may complete his curriculum by giving attendance during the remainder of his course in the University of Edinburgh, and may proceed to a Degree in that University, in the same way, in all respects, as if the previous part of his Curriculum had been taken therein; provided always that no such student shall be admitted to a Degree in the University of Edinburgh unless he has attended qualifying classes therein during the whole of the last academical year of his Curriculum. Further, the Senatus may accept, under such conditions as they may from time to time prescribe, attendance at other Universities specially recognised by the University Court, and the examinations passed therein, provided always that every student whose attendance or examinations are thus accepted, shall attend qualifying classes for at least two academical years in the University of Edinburgh, and shall pass the examinations of that University in the subjects studied therein.

(See Regulations under this Clause on following page.)

XXI. The Degree of Master of Arts shall in no case be conferred on persons who have not satisfied the conditions hereinbefore set forth, and shall not be conferred *honoris causâ tantum*; but the Senatus shall have power to admit (*ad eundem gradum*) to the Degree of Master of Arts any person who has already received that Degree from another University recognised by the University Court; provided that he is of distinguished merit or has been appointed to an academic office in the University of Edinburgh.

XXII. Students may attend any classes without having passed the Preliminary Examination within the meaning of this Ordinance, but such attendance shall not qualify for graduation.

XXIII. From and after the date at which this Ordinance comes into operation, Ordinances numbered 12, 14, 18, and 69 of the Commissioners under the Universities (Scotland) Act, 1858, as altered under the provisions of the said Act, and Ordinances Nos. 11, 44, 148, 160, and 168 of the Commissioners appointed under the Universities (Scotland) Act, 1889, the first clause of Section III., Sub-section (1) of their Ordinance No. 18,

and Ordinance General No 1. of the University Courts of the Scottish Universities are hereby repealed, as regards the University of Edinburgh in so far as they are inconsistent with this Ordinance; and any references made in existing Ordinances applicable to the University of Edinburgh to the said repealed Ordinances or Sub-section shall be deemed to refer to this Ordinance and the corresponding Sections and Sub-sections thereof; provided always that a student who, at the aforesaid date, has already commenced his course of study with a view to graduation in Arts in any of the Scottish Universities under the regulations in force at the time in such University, may complete his course and become a candidate for the Degree of Master of Arts with or without Honours at the University of Edinburgh, in conformity with such regulations.

REGULATIONS for Admission under Clause XX. of Students from Non-Scottish Universities, made by the Senatus, with the approval of the University Court.

Regulations.

1. When a University recognised by the Court has an Intermediate Examination an applicant from such University, who has attended that University for not less than a year and has passed such Intermediate Examination, may be exempted from one year's attendance at this University; he may also be exempted from attendance on two courses for the Ordinary Degree, in two subjects which he may select from among the subjects already studied in the recognised University: provided always that the Faculty of Arts is satisfied that the standard in the subjects studied is sufficient.

2. An applicant who has taken a Degree at any University recognised by the Court shall be exempted from one year's attendance at this University; he may also be exempted from the necessity of passing in two of the subjects for the Ordinary Degree, which he may choose from among the subjects passed in the recognised University: provided always that the Faculty of Arts is satisfied that the standard in the subjects passed is sufficient.

Universities Recognised.

All English Universities; Ireland—Trinity College, Dublin; Canada—McGill, Toronto, Dalhousie, Kingston, Manitoba, Alberta; Australia—Melbourne, Sydney, Adelaide; New Zealand—University of New Zealand; South Africa—University of the Cape of Good Hope; India—Bombay, Calcutta, Madras, Punjab, Allahabad; France—University of Paris; United States of America—See General Recognition List, U.S.A., pp. 879-82; Japan—Imperial Universities at Tokyo, Osaka, and Sendai.

Notes.—Every applicant must send in a certificate (the printed form for which is issued by the Matriculation Office) by the Registrar (or other authority) of the University from which he comes, certifying that he has duly completed at least one year's attendance at the University in question, and has passed an Intermediate Examination or otherwise satisfied the authorities of that University that he has made progress corresponding to

at least one full year of University study after completing the necessary Preliminary Qualification.

Every student admitted under these Regulations must study in the University of Edinburgh for two full academic years, and must enter at the opening of the Autumn Term in October. As the verification of standards often takes some time, consideration of the application cannot be guaranteed unless it is sent in at least four months before the commencement of the academic year : and in all cases the above-mentioned certificate must be in the hands of the Dean of the Faculty of Arts before the opening day of the Autumn Term.

ADDITIONAL REGULATIONS made by the Senatus, with the approval of the University Court, under Sections VI., VIII., IX., and XI. of the Court's Ordinance No. 11 [Regulations for Degrees in Arts].

Ordinary Degree.

I. DURATION OF COURSES.

Except in cases where the University Court has approved of qualifying courses extending over two periods only, courses qualifying for the Ordinary Degree extend over three periods of the academical year,¹ hereinafter called terms ; but the Senatus, with the approval of the University Court, may grant exemption from one term to students who may show good cause for the same, after such test as the Faculty may approve.

II. SUBJECTS AND DEPARTMENTS OF STUDY.

The following are the subjects at present recognised in the four Departments of Study in which qualifying classes are established :—

1. *Language and Literature.*

English.	Sanskrit.
Latin.	Hebrew.
Greek.	Arabic.
Celtic.	Italian.
French.	Spanish.
German.	Russian.

2. *Mental Philosophy.*

Logic and Metaphysics.	Political Economy.
Psychology.	Education (Theory and His-
Moral Philosophy.	tory of).

3. *Science.*

Mathematics.	Zoology.
Natural Philosophy.	Botany.
Astronomy.	Geology.
Chemistry.	Geography.

¹ Autumn, Spring, and Summer Terms.

4. *History and Law.*¹

History.
Archæology and Art (History of).
Constitutional Law and
Constitutional History.
Economic History.

Ancient (Greek and Roman)
History.
Roman Law.
Public Law.
Geography.

III. DOUBLE COURSES.

By a Double Course is meant the study of a subject for two separate academical years, or the study of two cognate subjects in accordance with Section VI. of the foregoing Ordinance.

Except in individual cases where the Senatus, with the approval of the University Court, has, for cause duly shown, decided otherwise, the two courses in a Double Course shall not be taken in the same academical year; and, except in such cases, a student shall not be allowed to attend the Second Course of the Double Course before he has passed the M.A. Examination in the First Course, or has satisfied some test recognised by the Faculty of Arts, with the approval of the Senatus, as equivalent thereto.

The following Double Courses are recognised :—

(a) *Double Courses in a Single Subject to be Studied for Two Separate Academical Years—*

English.
Latin.
Greek.
Celtic.
French.
German.
Sanskrit.

Hebrew.
Mathematics.
Natural Philosophy.
Chemistry.
Botany.
Zoology.
Geology.

The Second Course in a Single Subject shall not be a second attendance on the Ordinary Course, but shall be either an Intermediate Course, or, where such a Course has not been instituted, an Honours Course.

(b) *Double Courses in Cognate Subjects to be Studied for Two Separate Academical Years—*

British History followed by English.
Latin followed by Greek or French or Spanish or Italian, or by Roman Law.
Hebrew followed by Arabic.
Greek followed by History of Art.
Logic and Philosophical Introduction followed by Moral Philosophy or Psychology.
Psychology followed by Moral Philosophy or Education.

¹ Ecclesiastical, Scottish, and Colonial and Indian History only count as graduation subjects when taken after British History

Political Economy followed by Economic History, or Geography, or Social Ethics.

Moral Philosophy followed by Social Ethics.

Mathematics followed by Astronomy.

Geology followed by Geography.

British History followed by Constitutional, or Economic, or Scottish, or Modern Ecclesiastical, or Colonial and Indian, History, or the History of Art.

French followed by Spanish or Italian.

Spanish followed by Italian.

Italian followed by Spanish.

The Degree Examination in the subject taken in the Second Course of a Double Course in two Cognate Subjects shall be on a higher standard than that normally required for the Ordinary Degree.

IV. RESTRICTIONS ON THE CURRICULUM.

Every Curriculum admitted for the Ordinary Degree (subject to the exception provided below) must include either Logic and Philosophical Introduction or Moral Philosophy, and must embrace subjects taken from at least three out of the four Departments of Study enumerated in No. II. of the Additional Regulations—Geography to be reckoned for the present purpose as a subject in the Department of History and Law. Students who are taking a course at a Training College may offer Psychology as an alternative to either Logic and Philosophical Introduction or Moral Philosophy.

Every student at the beginning of his first term must submit the subjects which he proposes for his Curriculum, and at least a provisional order of study, for the approval of the Official Advisers, who act under the control of the Faculty.

Any subsequent alteration of the Curriculum must be submitted to the Official Advisers and the Dean.

V. DEGREE EXAMINATIONS.

In each subject for the Ordinary Degree there are two Degree Examinations in the academic year.

Degree with Honours.

I. HONOURS GROUPS.

The following are recognised as Groups in which the Degree of M.A. can be taken with Honours :—

(a) Classics (*i.e.* Latin and Greek, with special subjects, such as Comparative Philology, Ancient Philosophy, Classical Archæology, and Ancient History—Greek or Roman).

(b) Mental Philosophy.

- (c) Mathematics and Natural Philosophy.
- (d) English (*i.e.* Rhetoric and English Literature and Language).
- (e) Modern Languages and Literature.
- (f) History.
- (g) Economic Science (*i.e.* Political Economy, Economic History and Political Science, with an optional subject from Statistics and Mathematical Economics, Geography, Mercantile Law, and Palæography).
- (h) Latin and French.¹
- (i) Semitic Languages.
- (j) Sanskrit.

II. SUBJECTS OUTSIDE HONOURS GROUP.

The two subjects to be taken outside the candidate's Honours Group must be passed before the candidate proceeds to his Honours Examination, except in cases where the Senatus, on special cause shown, shall have consented to relax this regulation. With regard to the selection of the two subjects to be taken outside the candidate's Honours Group, the following restrictions are placed upon candidates :—

*Classics.*²—Candidates must take at least one of the following five subjects, viz. :—Logic and Philosophical Introduction, Moral Philosophy, Political Economy, History, English.

Mental Philosophy.—Candidates must take at least one of the following five subjects, viz. :—Greek, English, Mathematics, Natural Philosophy, Fine Art.

Mathematics and Natural Philosophy.—Candidates must take either English, Greek, or Logic and Philosophical Introduction.

English.—Candidates must take British History.

Modern Languages.—The same as for Classics.

*History.*²—Candidates must take either Logic, Moral Philosophy, or Political Economy.

Economic Science.—Candidates must take British History.

Latin and French.—The same as for Classics.

Semitic Languages.—The same as for Classics.

Sanskrit.—The same as for Classics.

¹ The examination programme in these subjects is the same as given under "Classics" and "Modern Languages" respectively.

² Candidates for Honours in Classics or in History may not count Ancient History (Ordinary Course) as a qualifying subject outside the Honours Group. See footnote 8 page 124.

III. ENTRY FOR HONOURS.

No candidate who has completed his Examination for Honours in any Group is allowed to present himself a second time for Honours in that Group.

A candidate for Honours in any Group must complete all the examinations required for Honours within five years from the date of his first matriculation after having passed the Preliminary Examination.

A candidate who has obtained Honours in any one Group may present himself for Honours in a second Group, provided all the examinations required for Honours in both Groups, in accordance with Section XI. (5) of the foregoing Ordinance, are completed within six years from the date of his first matriculation after passing the Preliminary Examination.

The usual period of five (or six) years within which a candidate must take Honours may be extended by the Senatus on the recommendation of the Faculty of Arts in any individual case where special cause has been shown.

When the usual period of five (or six) years has been extended, unless the Faculty of Arts expressly decide otherwise, the number of years allowed for extension shall be noted on the candidate's diploma, and also mentioned in the record in the CALENDAR.

When the usual period of five (or six) years has been extended, it is a condition that the eligibility of the candidate for University Prizes, Bursaries, Fellowships, or Scholarships shall be affected as follows :—

- (a) Where the condition for eligibility is the possession of an Honours Degree *simpliciter*, the candidate shall not be eligible.
- (b) Where eligibility is confined to a period subsequent to graduation with Honours, the period of eligibility shall be diminished by the number of years granted for extension.

IV. HONOURS EXAMINATIONS.

In each Honours Group there is one Honours Examination in each academical year.

REGULATIONS FOR SPECIAL STUDY AND RESEARCH, FOR APPOINTMENT OF RESEARCH STUDENTS AND FELLOWS, ETC.

I. It is in the power of the Senatus Academicus, with the approval of the University Court, to make regulations under which graduates of Scottish Universities, or of other Universities recognised by the University Court for the purposes hereof, or other persons who have given satisfactory proof of general education and of fitness to engage in some special study or research, may be admitted to prosecute such study or research in the University.

II. It is the duty of the Senatus Academicus—

- (1) To receive and decide upon all applications for admission to prosecute special study or research.
- (2) To prepare a list of all persons so admitted (hereinafter referred to as Research Students).
- (3) To make regulations for the supervision of their work.
- (4) To satisfy themselves from time to time that the Research Students are carrying on their work in the University in a satisfactory manner.
- (5) To suspend or exclude from any course any student whose conduct or progress is unsatisfactory.

III. Every applicant for admission must send in to the Senatus Academicus a written application stating any degree or other distinction which he has already obtained, the line of study or research which he wishes to prosecute and the probable period of its duration, together with evidence as to his character, capacity, and general qualifications.

IV. An application for admission is in the first instance referred by the Senatus to the appropriate Faculty, or to a Committee appointed by the Senatus; one member of the Committee shall always be a Professor or Lecturer within whose department the proposed line of study or research falls. No applicant shall be recommended by the Faculty or the Committee who has not satisfied them by examination or otherwise that he

is qualified to prosecute the proposed line of study or research, and further—

- (a) That his proposed line of study or research is a fit and proper one ;
- (b) That he possesses a good general education ;
- (c) That he is of good character ;
- (d) That he proposes to prosecute his studies or research during a period to be approved by the Senatus.

The Faculty or the Committee shall make a report to the Senatus upon each application. It is also their duty, subject to the regulations of the Senatus, to provide for the supervision of the Research Student's work, and to report at least once a year to the Senatus as to his progress and conduct. The Senatus shall then determine whether he shall remain a Research Student.

V. Every Research Student is required to matriculate each year, paying the ordinary fee.

VI. Research Students have access to and the use of the University Laboratories and Museums, under such conditions as to payment and otherwise as the University Court, after consultation with the Senatus, may determine.

VII. The title of Research Fellow may be conferred by the Senatus, with the approval of the University Court, on Research Students who have shown special distinction. Such title shall not of itself confer any right to stipend, but it shall be in the power of the University Court to provide a stipend of such amount and for such period as it may think fit to any Research Fellow under the powers of Section XI., Sub-section 8, of Ordinance 27.

VIII. (1) The Research Fellows shall be appointed as aforesaid, after consideration of the report or reports submitted in terms of Section IV. hereof.

- (2) The title of Research Fellow may be conferred either at the commencement of the Research Student's course of study or research, or at any time during its progress, as the Senatus may determine.

- (3) Research Fellows shall retain their title and stipend, if any, for the period during which they are engaged in special study or research in the University, and no longer.
- (4) Research Students who have been appointed Research Fellows shall continue to be subject to the conditions above prescribed as to the supervision of their work and the reports to be made thereon.

IX. Nothing herein contained shall prejudice the right of Research Students to such Fellowships, Scholarships, or Prizes as may be open to them by Ordinance or Deed of Foundation.

X. The University Court may, subject to the provisions of Section XI. Sub-section 8, of Ordinance 27, provide such sums as it may think fit in aid of the expenses of Special Study or Research.

REGULATIONS by the University Court, of date 17th June 1907, with regard to Fees payable by Research Students and Fellows, and Carnegie Fellows and Scholars who engage in Research in the University Laboratories.

Research Students and Fellows under Ordinance of the Scottish Universities' Commissioners (1889) No. 61 (General No. 23), and Carnegie Fellows and Scholars who make use of Laboratories for purposes of Research, if not already matriculated, are required to pay a fee equal in amount to the Matriculation Fee for each Academical year in which research is prosecuted.

Persons engaged in Research shall not be required to pay the ordinary Laboratory Fees, but they shall pay any special expenses incurred in connection with their work. Should they attend courses of Laboratory Instruction required for further graduation, they shall pay the full Laboratory Fees.

REGULATIONS FOR HIGHER DEGREES IN ARTS AND SCIENCE.

Degree of D.Sc.

I. Graduates who have taken the degree of Master of Arts in the University of Edinburgh with first or second class honours under the conditions prescribed by the Regulations for Degrees in Arts, or under the Regulations previously in force therein, or who have taken a degree in any Scottish University which the Senatus shall hold to be equivalent to such degree with honours as aforesaid, may offer themselves for the degree of Doctor of Science (D.Sc.) in the University of Edinburgh under the same conditions as if they held the degree of Bachelor of Science, and after the expiry of the same period from the date of such graduation as is required in the case of Bachelors of Science of that University.

II. Research Students, within the meaning of the Regulations for the Encouragement of Special Study and Research and for the appointment of Research Fellows, may offer themselves for the degree of D.Sc. of the University in which they have prosecuted some special study or research under those Regulations, although they have not taken the degree of B.Sc. or the degree of M.A. with honours as aforesaid in that University; provided—

(1) That they hold the degree of B.Sc. or M.B. of a Scottish or any recognised University, or a degree of any such University, which the Senatus shall hold to be equivalent to the degree of B.Sc. or to the degree of M.A. with first or second class honours; provided that candidates who hold any such degree from a University outside the United Kingdom may be required, if the Senatus think fit, before beginning their course as Research Students with a view to the degree of D.Sc., to pass an examination equivalent to an Honours or to a Final Science examination in a group of subjects cognate to their line of work as Research Students.

(2) That they have spent not less than two winter sessions or an equivalent period as Research Students in the University granting the degree, and that they produce evidence of satisfactory progress in the special study or research undertaken by them during that period.

III. All candidates for the degree of Doctor of Science shall satisfy the same conditions with respect to the presentation of a thesis or published

memoir or work,¹ and to the passing of examinations as are required in the case of Bachelors of Science of the University of Edinburgh.

Degree of D.Phil.

IV. Graduates who have taken the degree of Master of Arts in the University of Edinburgh with first or second class honours under the conditions prescribed by the Regulations for Graduation in Arts, or under the Regulations previously in force therein, or who have taken a degree in any Scottish University which the Senatus shall hold to be equivalent to such degree with honours as aforesaid, may offer themselves for the degree of Doctor of Philosophy (D.Phil.) in the University of Edinburgh after the expiry of five years from the date of such graduation.

V. Research Students as aforesaid may offer themselves for the degree of D.Phil. of the University in which they have prosecuted some special study under Ordinance No. 61 [General, No. 23—Regulations for the Encouragement of Special Study and Research and for the appointment of Research Fellows], although they have not taken the degree of M.A. with honours as aforesaid in that University; provided—

(1) That they hold the degree of M.A. with first or second class honours of any Scottish University, or a degree of a Scottish or any recognised University, which the Senatus shall hold to be equivalent to such degree with honours as aforesaid; provided that candidates who hold such a degree from a University outside the United Kingdom may be required, if the Senatus think fit, before beginning their course as Research Students, with a view to the degree of D.Phil., to pass an examination equivalent to an honours examination in a group of subjects cognate to their line of work as Research Students.

(2) That they have spent not less than two winter sessions or an equivalent period as Research Students in the University granting the degree, and produce evidence of satisfactory progress in the special study undertaken by them during that period.

(3) That a period of not less than five years shall have elapsed from the date of the graduation required in sub-section (1) of this section.

VI. All candidates for the degree of D.Phil. shall present a thesis or a published memoir or work,² which shall be an original contribution to

¹ The Thesis must be lodged and the fees paid on or before 31st December for the Spring Graduation, and on or before 1st May for the July Graduation.

² The Thesis must be lodged and the fees paid before 1st March; but intending candidates should give notice at the beginning of the Academical Year of their intention to present a Thesis, and of the subject which they propose to deal with.

learning, to be approved by the Senatus on the recommendation of a Committee appointed by the Senatus; provided that, if required by the Senatus, a candidate shall also be bound to pass such examination, conducted orally or otherwise, on the subject of his thesis or of his special study as may from time to time be determined. The thesis, or memoir, or work shall be accompanied by a declaration signed by the candidate that it has been composed by himself. If the thesis has not already been published, it shall be published by the candidate in such manner as the Senatus shall approve.

Degree of D.Litt.

VII. Graduates who have taken the degree of Master of Arts in the University of Edinburgh with first or second class honours, under the conditions prescribed by the Regulations for Degrees in Arts, or under the Regulations previously in force therein, or who have taken a degree in any Scottish University, which the Senatus shall hold to be equivalent to such degree with honours as aforesaid may offer themselves for the degree of Doctor of Letters (D.Litt.) in the University of Edinburgh after the expiry of five years from the date of such graduation.

VIII. Research Students as aforesaid may offer themselves for the degree of D.Litt. of the University in which they have prosecuted some special study under Ordinance No. 61 [General, No. 23—Regulations for the Encouragement of Special Study and Research and for the appointment of Research Fellows], although they have not taken the degree of M.A. with honours as aforesaid in that University; provided—

(1) That they hold the degree of M.A. with first or second class honours of any Scottish University, or a degree of a Scottish or any recognised University, which the Senatus shall hold to be equivalent to such degree with honours as aforesaid; provided that candidates who hold such a degree from a University outside the United Kingdom may be required, if the Senatus think fit, before beginning their course as Research Students with a view to the degree of D.Litt., to pass an examination equivalent to an honours examination in a group of subjects cognate to their line of work as Research Students.

(2) That they have spent not less than two winter sessions or an equivalent period as Research Students in the University granting the degree, and produce evidence of satisfactory progress in the special study undertaken by them during that period.

(3) That a period of not less than five years shall have elapsed from the date of the graduation required in sub-section (1) of this section.

IX. All candidates for the degree of D.Litt. shall present a thesis or a published memoir or work,¹ which shall be an original contribution to learning, to be approved by the Senatus on the recommendation of a Committee appointed by the Senatus; provided that, if required by the Senatus, a candidate shall also be bound to pass such examination, conducted orally or otherwise, on the subject of his thesis or of his special study as may from time to time be determined. The thesis, or memoir, or work shall be accompanied by a declaration signed by the candidate that it has been composed by himself. If the thesis has not already been published, it shall be published by the candidate in such manner as the Senatus shall approve.

General.

X. Notwithstanding and in supplement of the Regulations as to Examinations, Sections XIV. and XV., the Senatus Academicus in each University shall appoint such Professors or Lecturers as it may think suitable to conduct the examination of candidates who may offer themselves under the Regulations for Degrees in Science, or of these Regulations for the Degree of Doctor of Science, Doctor of Philosophy, or Doctor of Letters; and the University Court shall, after consultation with the Senatus Academicus, appoint an additional Examiner to act along with them. Such additional Examiner shall be a person of recognised eminence in the subject of the thesis, or memoir, or work which is to be submitted for approval. The result of the examination shall be reported to the appropriate Faculty or Committee of Senatus.

XI. The degrees of D.Sc. in Mental Science or D.Sc. in Philology shall no longer be conferred by any Scottish University.

XII. Candidates who have already completed the necessary attendance on classes required for the degree of D.Sc. in Mental Science or D.Sc. in Philology, under regulations hitherto in force in any Scottish University, may proceed to the degree of D.Phil., or of D.Litt., as the case may be, under this Ordinance; provided such candidates comply with the provisions of Section VI. or Section IX. hereof, as the case may be, and that a period of not less than five years shall have elapsed from the date of their graduation as M.A.

¹ The Thesis must be lodged and the fees paid before 1st March; but intending candidates should give notice at the beginning of the Academic Year of their intention to present a Thesis, and of the subject which they propose to deal with.

HIGHER DEGREES

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XIII. The degrees of D.Sc., D.Phil., and D.Litt. shall in no case be conferred on persons who have not satisfied the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

The fee to be paid for Examination for each of the degrees of D.Sc., D.Phil., and D.Litt. is ten guineas, payable when the thesis is lodged, and the fee for each re-examination for each of the degrees is £5, 5s.

Candidates for examination or graduation must pay the matriculation fee of £1, 1s. Candidates for graduation are required to enter their names and (if not previously registered) to pay the registration fee three days before the date of the Graduation Ceremonial.

COURSES OF INSTRUCTION AND SUBJECTS OF EXAMINATION.

HUMANITY—(Latin).

PROFESSOR RICHMOND.

JAMES MILL, M.A., and J. F. MOUNTFORD, M.A., *Lecturers*,
and Assistants.

First Ordinary Course—10 to 11.

Instruction is given in each of the three Terms of the Academic year. A portion of a Prose Author and of a Poet will be taken up in each, with the Political History and Literary History pertaining to them. Students who have attained to a satisfactory standard in the work of the first two Periods, and who have shown high proficiency in four authors, will be exempted from attendance during the third Term, under the conditions laid down by the University (p. 137).

The Class meets on Monday, Tuesday, Thursday, and Friday in the Autumn and Spring Terms, and on Tuesday, Wednesday, and Friday in Summer. On one of the days History or Literature will usually be the subject, on the others the text of prescribed authors, and from time to time a lecture, or part of a lecture, will deal with principles of composition or passages for composition or translation that have been set as exercises.

In addition to the lectures, Tutorial Instruction is given at times arranged each week for individual members of the Class, when composition or some other piece of written work is reviewed and discussed.

An examination in books read is held towards the close of each Term. From time to time shorter papers are set, in composition or in translation at sight.

No particular edition of any book is *prescribed*. For ordinary Class purposes, the editions published in Messrs Macmillan's series will be found suitable in scope. Only a

plain text is necessary in the case of books on which lectures are given. Students should possess a plain text of the whole author, e.g. Horace or Virgil.

Books recommended.—Gildersleeve and Lodge's *Latin Grammar*; Lindsay's *Historical Latin Grammar*; *Companion to Latin Studies*, ed. Sandys; Pelham's *Outlines of Roman History*; Myres' *History of Rome*; Capes' *Early Empire*; *Lives of Cicero, Cæsar, and Augustus*, in the "Heroes of the Nations" series; Cruttwell's *History of Latin Literature*; Mackail's *Latin Literature*; Wight-Duff's *Literary History*; *Companion to Latin Authors* (Middleton and Mills); Warde Fowler's *Roman Festivals*; Rich's *Dictionary of Antiquities*; Dimsdale's *Latin Literature*.

Second Ordinary Course.

A student who has passed the Degree Examination after a First Course in Latin, or has obtained at least a second class Certificate of Merit, may take the Class a second time. The Class work will be the ordinary work for that year, but the student will be required to attain to a considerably higher standard.

The Honours Class may be taken as a Second Course, if the student has obtained a Merit Certificate, and has passed at least the Higher Preliminary Examination in Greek.

The Subjects of Examination in Latin for the Ordinary Degree of M.A. are as follows:—

Prose Composition.

Translation from an Author or Authors not prescribed.

Roman History.—A general knowledge of Roman History to the death of Trajan is required of all candidates. It is expected also that the study of prescribed books (especially writings of Orators or Historians) will be accompanied by some special study of the times or events to which they relate.

Roman Literature.—A general knowledge of the course of Roman Literature to the death of Trajan, and a more minute knowledge of the Lives and Writings of prescribed Authors.

Composition, Translation, and general knowledge of Literature and History will form the main subject of the two Degree papers, of two hours each. Some knowledge of Grammar and Metre is also expected.

A reasonable measure of proficiency must be shown in each of the subjects of examination.

Books for 1920.

Candidates must show an adequate knowledge of at least four of the following :—

1. Virgil, *Georgics*, iv., and *Aeneid*, viii.
2. Horace, *Odes*, i., and *Carmen Saeculare*.
3. Cicero, *Pro Balbo* and *Pro Rege Deiotaro*.
4. Tacitus, *Histories*, i.
5. Juvenal, *Satires*, i., iii., vii., x.
6. Livy, bk. ix.

All the books read in class will not necessarily be taken from this list, but if other books are read, they will be admitted as equivalents.

Candidates who have taken the Class in a previous year, without obtaining complete exemption in books, must offer the *first four* books on this list. If they present themselves in October 1919, they must offer the first four books on the list for that year.

Degree Examination after a Second Course in Latin.

The general part of the examination will include Composition, Translation at Sight, and History and Literature, as for the first year, and the hours of examination will be the same. In this part, and in books, a considerably higher standard will be required. If the Honours Class be taken as a Second Course (which may be done if the student has obtained a merit certificate in the First Course, and has passed at least the Higher Preliminary Examination in Greek), the books on which exemption may be obtained will be those read in that class.

Honours Course—11 to 12.

Each period forms a Half Honours Course, two Terms making a full Honours Course. The First and Second Terms should, if possible, be taken together. Lectures are given on four days a week (Tuesday, Wednesday, Thursday, and Friday), and tutorial instruction is given to members of the Class individually, at times arranged with them.

The chief work consists of readings and explanations of some of the more difficult Latin authors. Literature or History is dealt with in connection with one of the books read.

A passage for Prose Composition is set every week, and usually a passage for Verse Composition (optional). Papers in Translation at Sight, and critical papers of various kinds, are set from time to time; and subjects are prescribed for an English or Latin Essay (in December).

An examination on books read in both the First and Second Terms is held about the end of February.

In the Autumn and Spring Terms, 1919-1920, the following books will be taken up in whole or part:—Juvenal, *Satires*; Merry's *Fragments of Roman Poetry*. Similar work will be done in the Summer half-course, the books being taken mainly from the list of those prescribed for the Honours examinations.

The Subjects of Examination for the Degree of M.A. with HONOURS IN CLASSICS, or with HONOURS IN LATIN AND FRENCH, are given on page 150.

GREEK.

PROFESSOR MAIR.

First Ordinary Course—11 to 12.

Instruction is given in each of the three Terms of the Academic year. The Class meets on Monday, Tuesday, Thursday, and Friday in the Autumn and Spring Terms, and on Tuesday, Wednesday, and Friday in Summer. The work consists of the reading of Greek poets and prose authors, lectures on History, Literature, or Philosophy; Composition; papers in Unseen Translation, etc. Students who have attained to a satisfactory standard in the work of the first two periods, and who have shown high proficiency in four authors, will be exempted from attendance during the third Term, under the conditions laid down by the University (p. 137).

In addition to the lectures, tutorial instruction is given at times arranged for individual members of the Class, when composition or some other piece of written work is reviewed and discussed.

An examination in books read is held towards the close of each Term. From time to time, shorter papers are set, in Composition, Unseen Translation, etc.

Books recommended.—*Cambridge Companion to Greek Studies*; Gow's *Companion to School Classics*; *Greek Literature*, by W. C.

Wright (Pitman & Sons); Jebb's *Primer of Greek Literature*; Bury's *History of Greece*; *Greek History*, by H. Swoboda (Dent & Co.); Woodhouse's *History of Greece* (W. B. Clive); Rich's *Dictionary of Antiquities*.

Students are advised to consult the Professor with regard to Textbooks.

Second Ordinary Course.

A student who has passed the Degree examination after a First Course in Greek, or has obtained at least a second class Certificate of Merit, may take the Ordinary Class a second time. The Class work will be the ordinary work for that year, but the student will be required to attain a considerably higher standard.

The Honours Class may be taken as a second course, if the student has gained a Merit Certificate.

The Subjects of Examination in Greek for the Ordinary Degree of M.A. are as follows:—

Prose Composition.

Translation from an author or authors not prescribed.

History.—A general knowledge of Greek History to the death of Alexander. It is expected further that the study of prescribed books (especially writings of orators or historians) will be accompanied by a more special study of the times and events to which they relate.

Literature.—A general knowledge of the history of Greek Literature to the end of the fourth century B.C., and a more special knowledge of the prescribed Authors.

A reasonable measure of proficiency must be shown in each of the subjects of examination.

For 1920.

Books.—Candidates must show an adequate knowledge of at least four of the following: (1) Homer, *Odyssey*, xi.; (2) Plato, *Apology*; (3) Aristophanes, *Acharnians*; (4) Demosthenes, *Leptines*; (5) Plutarch, *Pericles*; (6) Herodotus, iv. All the books read in class will not necessarily be taken from this list, but if other books are read, they will be admitted as equivalents.

Candidates who have taken the Class in a previous year, without obtaining complete exemption in books, must offer the *first four* books on this list. If they present themselves in October 1919, they must offer the first four books on the list for that year.

Degree Examination after a Second Course in Greek.

The general part of the examination will include Composition, Translation at Sight, and History and Literature, as for the first year, and the hours of examination will be the same. In this part, and in books, a considerably higher standard will be required. If the Honours Class be taken as a Second Course (which may be done if the student has obtained a merit certificate in the First Course), the books on which exemption may be obtained will be those read in that class.

Honours Course—10 to 11.

Each Term forms a half Honours Course, two Terms making a full Honours Course. The First and Second Terms should, if possible, be taken together. Lectures are given on four days a week—Tuesday, Wednesday, Thursday, Friday, and Tutorial Instruction is given to members of the Class individually, at times arranged with them.

The chief work consists of—

1. Readings of some of the more difficult Greek authors.
2. Lectures on Greek Literature, History, or Philosophy.
3. Greek Composition and Translation of Unseen Passages.
4. Occasional Critical Papers and Essays.
5. Written Examinations on the work done in Class.

During the Autumn and Spring Terms, 1919-1920, the chief work of the Class will be Pindar, *Isthmian Odes*; Thucydides, viii.; and Aristophanes (selections).

During the Summer Term the books read will be taken from the Honours programme for the following March. Tutorial instruction is given; and Composition, Unseen Translation, and other exercises are set.

Elementary Course.

(Monday, Tuesday, Thursday, and Friday, 9 to 10 A.M.)

This Class is intended mainly for such students as have entered the University without sufficient knowledge of Greek to enable them to profit by the ordinary Graduation Class, but who have found reason to take up the study of Greek.

The Class meets, as above, during the Autumn and Spring Terms. The work will be largely tutorial, and will include

Grammar, simple exercises in Composition, and reading of Easy Texts.—Fee £3, 3s.

The Subjects of Examination for the Degree of M.A. with HONOURS IN CLASSICS are given on p. 151.

CLASSICAL ARCHÆOLOGY.

PROFESSOR BALDWIN BROWN.

(For ORDINARY COURSE in Fine Art, see p. 244.)

Classical Archæology may be taken as one of the special subjects for Honours in Classics.

An Honours Course of about fifty lectures is given in the Autumn and Spring Terms on Mondays, Wednesdays, and Thursdays, at 5 P.M.

The treatment of the subjects includes :—

1. A general survey of the field of study, embracing a notice of (a) sites of artistic importance (Knossos, Mycenæ, Olympia, Delphi, the Athenian Acropolis, etc.); (b) the ancient city, its arrangement, dwellings, etc., with public structures, such as the Temple and the Theatre; (c) the artistic activity of the ancient craftsman in various departments, with the materials and processes on which he was employed.

2. An examination of selected passages from ancient authors bearing on the earliest history of the Arts in Greece.

3. A study of the History of Classical Sculpture from the earliest times to the Roman period.

Under heading 2, and to some extent under headings 1 and 3, original literary authorities are carefully examined, and those taking the course in view of the examination in the subject in connection with Honours in Classics will be expected to acquire a critical knowledge of them.

The textbooks are Overbeck's *Schriftquellen* (a collection of passages from ancient authors bearing on Classical Art); Walters's *The Art of the Greeks* (London: Methuen, 1906); E. Gardner's *Handbook of Greek Sculpture*, with Appendix (London: Macmillan, 1896 and 1905).

The Class may be taken by students who have only a general interest in Classical Art, but it must be understood that the lectures will not be given unless some member or members of the Class are taking the subject for Classical Honours.

The Subjects of Examination in Classical Archæology for the Degree of M.A. with HONOURS IN CLASSICS are given on page 151; and the Subjects in History of Art for the Degree with HONOURS IN HISTORY on page 247.

ANCIENT (GREEK AND ROMAN) HISTORY.

A. F. GILES, M.A., *Lecturer.*

(For Ordinary Course, see Department of History and Law, p. 238.)

Honours Half-Courses.

Candidates for Honours in Classics or in History may offer as an optional subject for examination a special period either of Greek or of Roman History. Lectures will be given in the Academic year 1919-1920 as follows:—

- (i) Autumn Term, 1919, on Tuesdays, Wednesdays, and Fridays at 9 o'clock: Honours half-course on Roman History, 60 B.C.—A.D. 14. (Period set for Honours in Classics and in History, 1920.)
 - (ii) Summer Term, 1920, on Tuesdays, Wednesdays, and Fridays, at 9 o'clock: Honours half-course on Greek History, 490-429 B.C. (Period set for Honours in Classics and in History, 1921.)
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The Subjects of Examination in Ancient History for the Degree of M.A. with HONOURS IN CLASSICS are given below; and the Subjects for the same Degree with HONOURS IN HISTORY are given on page 246.

HONOURS EXAMINATION IN CLASSICS.¹

Curriculum.—The ordinary classes in Latin and Greek are usually taken in the first year. It will be found desirable to take two full Honours courses (or equivalent half-courses) in each language. Few, if any, candidates should attempt the Honours Examination before the end of their fourth year. A course in a special subject will usually form part of the work of the third or fourth year. Candidates should, if possible, attend the introductory courses in Ancient History and Ancient Philosophy, given by the lecturers in these subjects, at an early stage in their curriculum (see p. 124, footnote 3, and p. 186).

Ordinary subjects outside the Honours group.—The two subjects required may advantageously be taken in the second year, or one in the second and one in the third. When an Honours course in Classics is not taken, a course in Greek or Latin Composition should be taken, to maintain continuity of classical work.

For an Honours candidate in Classics, Logic or Moral Philosophy is an important subject. A sound knowledge of English literature is also very desirable. These subjects should not be omitted without careful consideration and consultation. For advanced work in this, as in other subjects, ability to read French and German books is of much importance.

Subjects of Examination.—A general acquaintance with the Greek and Latin writers of the classical age will be expected from all candidates; and unseen passages from other than the prescribed authors will form an important part of the examination.

History.—A general knowledge of Roman history (to the death of Trajan), and of Greek history (to the death of Alexander); and a more minute knowledge in connection with prescribed works of orators, historians, or writers on Political Theory.

Literature.—A general knowledge of the course of Greek and Roman literature, and a more minute knowledge of the lives and writings of prescribed authors.

Composition.—Prose composition in Greek and Latin is required of all candidates. Verse composition is optional.

Special Subject.—Every candidate must offer one Special Subject from the list given below.

PRESCRIBED BOOKS.

Latin.

For 1920.

Virgil—Merry's *Fragments of Roman Poetry* (Lucilius, Varro, Cicero)—Plautus, *Aulularia*—Juvenal, *Satires*, x. to xvi. (Duff's edition)—Seneca, *Octavia*—Tacitus, *Annals*, xiv., and *Dialogus de Oratoribus*—Cicero, *In Verrem*, Act ii., Bk. iii., and *Philippics*, i., ii.

¹ The work prescribed in Latin also forms the programme in that subject under the Honours Group "Latin and French."

For 1921.

Horace—Quintilian, *Inst. Orat.*, x.—Plautus, *Mostellaria*, *Rudens*—
Lucretius, i.—Statius, *Silvae*, i., 4; ii., 2, 4, 7; iii., 2, 3, 5; iv., 3, 4, 6;
v., 2, 3, 4—Cicero, *De Natura Deorum*—Tacitus, *Histories*, iii., iv.

Greek.

For 1920.

Homer, *Odyssey*, xiii.-xxiv.—Pindar, *Isthmian Odes*—Sophocles, *Oedipus Tyrannus*—Plato, *Phaedo*—Thucydides, viii.—Andocides, *De Mysteries*.

For 1921.

Homer, *Iliad*, i.-xii.—Pindar, *Olympian Odes*—Callimachus, *Hymns*—
Sophocles, *Ajax*—Thucydides, viii.—Plato, *Republic*, x.—Demosthenes,
Orations, xxxiv., xxxv., xxxvii., xxxix., xl., lvi. (in Paley and Sandys,
Select Private Orations, vol. i.)

SPECIAL SUBJECTS.

Comparative Philology.

For 1920 and 1921.

Candidates who take Comparative Philology as their special subject for Graduation with Honours in Classics, will be examined in the following branches of Linguistic Science: (a) Science of Language, including the history and general results of Linguistic research. (b) Principles of Comparative Philology of the Indo-European Languages, with special reference to the Greek and Latin Languages. (c) Etymology of Greek and Latin.

Books recommended for private study:—(a) M. Müller, *Lectures on the Science of Language*. W. D. Whitney, *Language and the Study of Language*. B. Delbrück, *Introduction to the Study of Language*. (b) P. Giles, *Short Manual of Comparative Philology*; J. M. Edmonds, *An Introduction to Comparative Philology*. Also recommended for reference:—King and Cookson, *Principles of Sound and Inflection*. Brugmann's *Grundriss* (2nd edition, Strassburg, 1897-1911). Brugmann and Stolz, *Greek and Latin Grammars* (Iwan Müller's *Handbuch der klassischen Altertumswissenschaft*, vol. ii.). Blass, *Pronunciation of Ancient Greek* (Cambridge University Press). (c) Curtius, *Principles of Greek Etymology*, book ii.

Classical Archæology.

For 1920 and 1921.

1. The general history of the Arts of Form in Greece. To be studied in Overbeck's *Schriftquellen* and Walters's *The Art of the Greeks*.

2. The history of Greek Sculpture. To be studied in E. Gardner's *Handbook of Greek Sculpture* and Brunn-Bruckmann's Photographs.

Ancient Philosophy.*For 1920 and 1921.*

A. The outlines of Greek Philosophy before Aristotle, with—(1) The original authorities for Parmenides, Empedocles, Anaxagoras, and Democritus, as quoted in Ritter and Preller, *Historia Philosophiæ Græcæ*; (2) Plato, *Republic*, bks. vi. and vii., and *Phædo*.

Or, as an alternative:

B. The outlines of the Philosophy of Plato and Aristotle, with—(1) Plato, *Sophist*; (2) Aristotle, *De Anima*, bk. i. c. 1; bk. ii. cc. 1-6, 12; bk. iii. cc. 1-5.

Or, as an alternative:

C. Ancient Philosophy after Aristotle, with J. Adam's *Texts to illustrate Greek Philosophy after Aristotle*.

Ancient History.*For 1920.*

Greek History, 621-490 B.C., with Herodotus, bks. i., v., and vi.; Aristotle, *Constitution of Athens*, ch. 1-21.

Or, as an alternative:

Roman History, 60 B.C.-A.D. 14, with Cicero's *Letters* (Watson's Selections, parts i., ii., and v.); Cæsar, *Civil War*; Suetonius, *Augustus*; the *Monumentum Ancyranum*.

For 1921.

Greek History, 490-429 B.C., with Herodotus, bks. vii.-ix.; Thucydides, bk. i.; Hicks and Hill, *Manual of Greek Historical Inscriptions*, part ii.

Or, as an alternative:

Roman History, A.D. 14-138, with Tacitus, *Annals*; Rushforth, *Latin Historical Inscriptions*.

SCHOLARSHIPS, ETC., in the Department of Classics, open 1919-1920—Baxter (J. E.), p. 279; Black (C. B.), p. 279; Bruce of Grangehill and Falkland, p. 280; Ferguson, p. 282; Guthrie, p. 283; Mackenzie, p. 285; Pitt Club, p. 287; Rhind, p. 287; Vans Dunlop, p. 291.

BURSARY—Lanfine, p. 309.

RHETORIC AND ENGLISH LITERATURE.

PROFESSOR GRIERSON.

Lecturers—A. BLYTH WEBSTER, M.A., GEORGE KITCHIN, M.A., B.Litt., and BRUCE DICKINS, M.A.

Ordinary Course.

4 to 5, Monday, Tuesday, and Friday throughout the teaching part of the Term, with Tutorials on Wednesday and Thursday as may be arranged. For Tutorials the class will be broken up into sections, meeting in different rooms.

On Mondays and Tuesdays the lectures will deal in outline with the history of prose, including the novel, and poetry from Chaucer (with introduction) to the end of the nineteenth century. The lectures will deal a little more in detail with selected authors and the prescribed works, and on Wednesdays during the first two terms some additional lectures on the prescribed books may be given in place of Tutorials. Students will be expected to make use, along with the lectures, of Saintsbury's *Short History*; Saintsbury's *Manual of English Prosody*; Galton's *English Prose*; Dixon and Grierson's *The English Parnassus*; *The Oxford Book of English Verse*.

On Fridays during the first two Terms the lectures will deal with Rhetoric and Composition. Some study will be attempted of the means of persuasion generally, the Aristotelian "proofs," ethical, intellectual, emotional, with an analysis of some representative speeches. The use of the "proofs" or "topics" in other than oratorical writing will be considered; but the subject of style or composition will form the larger part of the course. Text-books for reference: Aristotle's *Rhetoric*, trans. Weldon; *Oratory, British and Irish, The Great Age*, ed. Godfrey Locker Lampson; Bain's *Rhetoric and Composition*; Galton's *English Prose*.

There will be one or two short examinations during the Term, and a two-hour examination towards the end of each Term, and in each of the first two Terms there will be an essay, the first done at home, the other either at home or in the examination hall as may be prescribed. There will be prizes for these essays, distinct from the general prizes.

No one can take the second part of the Double Course with-

out either passing the Degree examination at *one trial* in the first or obtaining at least a second class certificate on the first year's work.

The standard of Class and Degree examination in the Second Year's Course will be higher than in the First.

Second Ordinary Course.

2 to 3 Monday, Tuesday, and Friday throughout the teaching part of the year. Tutorials will be arranged as may prove practicable.

On Mondays and Tuesdays the lectures will deal in 1919-20 (continuing the first Ordinary Course of 1918-19) with the Literature of the Seventeenth Century and of the Nineteenth Century, with special attention to selected authors and the books prescribed for the degree examination. These lectures will be delivered generally by Mr Blyth Webster, occasionally by the Professor. On Fridays the lectures will deal with certain critical texts prescribed for the degree, and the subjects of Language in relation to Literature, and of Prosody. These lectures will generally be delivered by Mr Kitchin, but on occasions the lectures will be delivered by the Professor. Text-books: Dixon and Grierson, *The English Parnassus*; Galton's *English Prose*; Saintsbury's *Loci Critici*; Saintsbury's *Historical Manual of English Prosody*. For subsequent years the work of the class will be so arranged as to continue the work of the first Ordinary Course, the lectures dealing with subjects and authors lightly touched on in that course. The class is intended for those who are taking English as a double subject, and also as an Intermediate Honours Class.

It is not desirable that students should take the Double Course in English unless they either intend to take Honours or have some special preparation or aptitude for the subject.

Those who intend to take Honours are strongly advised to give at least four years to the study of English, taking the Ordinary and Higher Ordinary Courses and two years of Honours Classes. At least two years should be given to the study of Language.

Students who are not taking Honours, but who desire to take the Double Course, will find, besides the "cognate" subjects

(see p. 138), Logic or Moral Philosophy, and British History, or Fine Art, especially suitable for combination.

The general prohibition of taking English in the first year will only be suspended in particular cases for special reasons, such as the wish of the student to take the class before devoting himself to Honours study in English or some other subject.

The Subjects of Examination in English for the Ordinary Degree and Second Ordinary of M.A. are as follows:—

Rhetoric and English Composition: Class Lectures and Aristotle's *Rhetoric* (trans. Weildon), Galton's *English Prose, from Mandeville to Thackeray*. History of English Literature: Class Lectures, with Saintsbury's *Short History* and *Historical Manual of English Prosody*.

For October 1919.

Chaucer, *Prologue and Knight's Tale*—Spenser, *Faerie Queene*, Book VI.—Shakespeare, *Twelfth Night, Hamlet*, and *Coriolanus*—Dixon and Grierson, *English Parnassus*, the selected poems, from Sackville to Marlowe, and Pope to Wordsworth—Galton's *English Prose, from Mandeville to Thackeray*.

Additional for Second Course students:—

Sidney's *Defence of Poesy* and Dryden's *Essay of Dramatic Poetry*.

For June and October 1920.

Ordinary.

Chaucer's *The Prologue* and *The Nonne Priestes Tale*—Shakespeare's *Hamlet* and *King Lear*—Spenser's *Prothalamion*—Milton's *Lycidas*—Pope's *The Rape of the Lock*—Goldsmith's *The Deserted Village*—Gray's *Elegy in a Country Churchyard*, *Progress of Poesy*, and *The Bard*—Burns' *To William Simpson*, *Address to the Deil*, and *Epistle to James Smith*—Wordsworth's *Resolution and Independence*, *Intimations of Immortality*, and *Laodamia*—Coleridge's *Rime of the Ancient Mariner* and *Christabel*—Byron's *Prisoner of Chillon*—Keats' *Eve of St Agnes*—Tennyson's *The Lotus-Eaters*, *Oenone*, *Morte d'Arthur*, and *Ulysses*—Browning's *Caliban upon Setebos*—Arnold's *Scholar Gipsy*—Fitzgerald's *Rubaiyat of Omar Khayyam*. All these poems are in *The English Parnassus*, but students may use any editions. Galton's *English Prose*; Burke's *Speech on Conciliation with America*.

• Second Ordinary.

Shakespeare's *King Lear* and *The Tempest*—Ben Jonson's *The Poetaster*—Webster's *The Duchess of Malfi*—Milton's *Comus* and *Samson*—Ben Jonson's *To the Memory of William Shakespeare*—Marvell's *An Horatian Ode*—Byron's *Childe Harold's Pilgrimage*, Canto III.—Shelley's *Alastor*—Keats' *Isabella*, *Eve of St Agnes*, *Hyperion*—Tennyson's *Oenone*, *Morte d'Arthur*, *Ulysses*—Browning's *Pictor Ignotus*, *Fra Lippo Lippi*, *A Toccata of Galuppi's*—Arnold's *Sohrab and Rustum*—Dryden's *Essay of Dramatic Poetry*—Wordsworth's *Preface to Lyrical Ballads*.

Honours Courses.

ENGLISH LITERATURE.

PROFESSOR GRIERSON ; A. BLYTH WEBSTER, M.A., GEORGE KITCHIN, M.A., B.Litt., and BRUCE DICKINS, M.A., *Lecturers.*

A full Honours Course is given by the Professor in the Autumn and Spring Terms, and a Half Course once a week throughout the year by Mr Blyth Webster. The Class meets at 2 P.M. on Monday, Tuesday, and Friday. The Winter Course of fifty lectures will be divided into two sets. For the Autumn Term the subject will be "Shakespeare" or "Chaucer" in alternate years—in 1919, "Chaucer." The lectures will deal mainly with Chaucer but also with contemporary poetry, especially Gower, *Piers Plowman*, *The Pearl*, *Gawain and the Green Knight*. On Fridays the lectures will deal occasionally with critical questions in the theory of literature. In the Spring Term the course will deal with a special subject connected with the period prescribed for the Honours Examination for the year—in 1920, "Poetry generally, Wordsworth to Morris"; in 1921, "Carlyle, Macaulay, Newman, and Ruskin." Mr Blyth Webster's Half Course will always deal with some subject introductory to the work of the subsequent year; in 1920, "The Novel from Miss Burney to Thackeray"; in 1921, "Poetry from Wyatt to Spenser."

Mr Kitchin will conduct, under the direction of the Professor, Tutorial Classes for small groups of Honours Students. These classes will be held from 10 to 11 and from 11 to 12 every day from Monday to Friday; but the hour may occasionally be used for the writing of short papers or essays, to be returned at subsequent meetings.

ENGLISH LANGUAGE.

BRUCE DICKINS, M.A., *Lecturer.*

3-4 daily, or four times a week throughout the teaching part of the session.

There will be two classes for candidates for Honours meeting on alternate days or as may be arranged.

The work of the Junior Class will comprise the study of Old and Middle English (including Scots grammar); the reading of easier, mainly prose, Old and Middle English texts; the history of the English Language.

Text-books.—Sievers-Cook, *Old English Grammar*; Sweet's *Anglo-Saxon Reader* (5th edition); Emerson's *Middle English Reader*.

The work of the Senior Class will comprise the continued study of Old and Middle English and Middle Scots grammar; the reading of more advanced, mainly poetical, texts, including works prescribed for the examination for Honours; the History of the English Language continued; some lectures on Old and Middle English and Middle Scottish Literature.

Books recommended.—Sweet, *Anglo-Saxon Reader* (8th edition); Emerson, *Middle English Reader*; Gregory Smith, *Specimens of Middle Scots*; Emerson, *Chaucer Selections*; Sweet, *Anglo-Saxon Reader, Part II., Archaic and Dialectal*, and *History of English Sounds*; Sievers, *Grammar of Old English*; Wright, *Old English Grammar*; Wyld, *Short History of English*, and *Historical Study of the Mother Tongue*; Toller, *Outlines of History of English Language*; Jespersen, *Growth and Structure of English Language*; Skeat, *English Dialects*; Kellner, *Outlines of English Syntax*.

The Subjects of Examination for the Degree of M.A. with HONOURS IN ENGLISH (Language and Literature) are as follows:—

HONOURS EXAMINATION IN ENGLISH (LANGUAGE AND LITERATURE).

Candidates for Honours in English must attend at least four complete courses of lectures within their Honours Group, viz.: (a) Not less than three courses in English Literature, of which one at least must be an Honours course; and (b) the Honours course in English Language. They must take the Ordinary course in British History outside their Honours Group.

Every such candidate must be examined in all the subjects mentioned in the Additional Regulations, Section I. (d) Degree with Honours.

SUBJECTS FOR 1920.¹

• Literature.

The Examination in Honours for 1920 will include the following Papers:—

1. An Essay Paper.
2. Rhetoric and the History of English Literature, one paper. This paper will be based on the work done in the Ordinary and Second

¹ Candidates who matriculated before 1917 with the intention of working for Honours in English, but whose course was interrupted by war service, will, in 1920 and 1921, be exempted from the special paper in "Chaucer."

Ordinary Courses, supplemented by the student's own reading, and such further courses as he may have attended. *Books to be consulted are:*—Saintsbury's *Short History, History of English Criticism, and History of English Prosody* (very important); Courthope's *History of English Poetry*; Jusserand's *Literary History of the English People*; the chapters on English Literature in Saintsbury's *Periods of European Literature*. A number of the questions (of which some will be compulsory) will deal with Rhetoric, the history of English criticism, the history of English verse and prose diction, and prosody. Candidates will be expected to be familiar with (whether they have studied them in connection with special courses or not) such critical texts as: Sidney's *Defence of Poesy*; Dryden's *Essay of Dramatic Poesy*, and other critical essays; Addison's critical essays; Johnson's *Lives of the Poets*; Hurd's *Letters on Romance*; Wordsworth's *Prefaces*, and the critical works of Coleridge, Lamb, Hazlitt, Arnold, and Pater.

3. Chaucer, one paper. *Books recommended:*—Chaucer, *Complete Works*, ed. Skeat, and Globe Chaucer; Root, *The Poetry of Chaucer*; Legouis' *Chaucer*; Ten Brink and Kluge, *The Language and Metre of Chaucer* (translated by Miss Bentinck Smith); Publications of the Chaucer Society.

4. Shakespeare, one paper. *Books recommended:*—Shakespeare, Works, Oxford edition and Herford's edition; Sidney Lee's *Life of Shakespeare*; Franz, *Shakespeare Grammatik*, 2nd edition; Schmidt, *Shakespeare Lexicon*, 2nd edition; Nichol Smith, *Eighteenth Century Essays on Shakespeare*; Shakespeare Criticism of Goethe (*Wilhelm Meister*), Coleridge, Lamb, Hazlitt, Bradley, etc.

5 and 6. Literature from 1760 to 1860.—Blake, *Poems*; Burns, *Poems* (Kilmarnock); Wordsworth and Coleridge, *Lyrical Ballads, Poems, 1807, Christabel*; Scott, *Waverley, Guy Rannering, Antiquary, Rob Roy, Old Mortality, and lyrics*; Byron, *Child Harold, iii. and iv., and lyrics*; Shelley, *Prometheus Unbound, The Cenci, and lyrics*; Keats, *Hyperion, Eve of St Agnes, Isabella, and Odes*; Tennyson, *Poems, 1842*; Jane Austen, *Novels*; Lamb, *Essays of Elia*; Browning, *Dramatic Lyrics, Dramatic Romances, Men and Women, Paracelsus*.

Language.

There will be two papers (7 and 8) in Language.

1. The History of Old and Middle English and Middle Scots. Candidates must show knowledge based on the texts in Sweet's *Anglo-Saxon Reader* (8th edition); Emerson's *Middle English Reader*; Gregory Smith's *Specimens of Middle Scots*; and Emerson's *Chaucer Selections*. Questions will be set on the history of the language during these periods, and unseen passages will be given for translation into Modern English.

2. Passages from specified prose and verse writings in Old and Middle English and Middle Scots for translation and explanation; with questions on language, metre, and literary history. The following texts are prescribed:—O.E., *Beowulf, 1-1887*; *Widsith*; *Waldere*; *Deor's Lament*. M.E., *The Owl and the Nightingale*. M.Sc., *Complaynt of Scotland*.

SUBJECTS FOR 1921.

1. An Essay Paper.
2. Rhetoric and the History of English Literature, one paper. This paper will be based on the work done in the Ordinary and Second Ordinary Courses, supplemented by the student's own reading, and such

further courses as he may have attended. *Books to be consulted are* :—Saintsbury's *Short History, History of English Criticism, and History of English Prosody* (very important) ; Courthope's *History of English Poetry* ; Jusserand's *Literary History of the English People* ; the chapters on English Literature in Saintsbury's *Periods of European Literature*. A number of the questions (of which some will be compulsory) will deal with Rhetoric, the history of English criticism, the history of English verse and prose diction, and prosody. Candidates will be expected to be familiar with (whether they have studied them in connection with special courses or not) such critical texts as :—Sidney's *Defence of Poesy* ; Dryden's *Essay of Dramatic Poesy*, and other critical essays ; Addison's critical essays ; Johnson's *Lives of the Poets* ; Hurd's *Letters on Romance* ; Wordsworth's *Prefaces*, and the critical works of Coleridge, Lamb, Hazlitt, Arnold, and Pater.

3. Chaucer, one paper. *Books recommended* :—Chaucer, *Complete Works*, ed. Skeat, and *Globe Chaucer* ; Root, *The Poetry of Chaucer* ; Legouis' *Chaucer* ; Ten Brink and Kluge, *The Language and Metre of Chaucer* (translated by Miss Bentinck Smith) ; Publications of the Chaucer Society. For questions on text and language :—*House of Fame*, Prologue to the *Legende of Good Women*, Prologue to the *Canterbury Tales*, *The Knightes Tale*.

4. Shakespeare, one paper. *Books recommended* :—Shakespeare, *Works*, Oxford edition and Herford's edition ; Sidney Lee's *Life of Shakespeare* ; Franz, *Shakespeare Grammatik*, 2nd edition ; Schmidt, *Shakespeare Lexicon*, 2nd edition ; Nichol Smith, *Eighteenth Century Essays on Shakespeare* ; Shakespeare Criticism of Goethe (*Wilhelm Meister*), Coleridge, Lamb, Hazlitt, Bradley, etc. For questions on text, grammar, and vocabulary :—*Romeo and Juliet*, *Hamlet*, *King Lear*.

5 and 6. Literature from 1760 to 1860, with special reference to the Romantic Revival ; two papers. Candidates are expected to show a knowledge of :—Macpherson, *Poems of Ossian* ; Percy, *Reliques of Ancient English Poetry* ; Blake, *Poetical Sketches*, *Songs of Innocence*, *Songs of Experience* ; Crabbe, *The Village* ; Burns, the *Kilmarnock Poems chiefly in the Scottish Dialect* ; Wordsworth's *Prelude* ; Scott's *Waverley*, *Guy Mannering*, *Antiquary*, *Heart of Midlothian*, and *St Ronan's Well* ; Byron's *Manfred*, *Cain*, *Vision of Judgment*, and *Lyrics* ; Shelley's *Epipsychidion*, *Adonais*, and *Lyrics* ; Keats' *Hyperion* and *Odes* ; Tennyson's *Poems*, 1842, and *The Princess* ; Browning's *Dramatic Lyrics* ; *Dramatic Romances*, and *Men and Women* ; Arnold, *Poems*, 1855 ; Morris, *Defence of Guinevere* ; Macaulay, *Essays* ; Arnold, *Essays in Criticism*, first series ; Carlyle, *Heroes*, and *Sartor Resartus*.

English Language, 1921.

Texts :—O.E., *Beowulf*, 1-1887 ; *Fight at Finnsburgh* ; *Deor's Lament* ; *Wanderer* ; *Seafarer* ; Sweet's *Anglo-Saxon Reader*, iii., vi., viii., x. M.E., Chaucer's *Nun's Priest's Tale* and *Dethe of Blanche the Duchesse* ; *The Pearl*. Middle Scots, *Kingis Quair*.

SCHOLARSHIPS, etc., in the Department of English, open 1919-20.—Edmondstoune Aytoun, p. 282 ; Gray, p. 283 ; Scott (George), 288 ; Vans Dunlop, p. 295.

BURSARIES.—Lanfine, p. 309 ; Patterson, p. 317.

FRENCH LANGUAGE AND LITERATURE AND ROMANCE PHILOLOGY.

PROFESSOR SAROLEA.

MARY BURNS, M.A., Docteur de l'Université de Paris, *Lecturer*,
and Assistants.

(a) Ordinary Course.

The Class meets on Mondays, Wednesdays, and Thursdays, at 3 o'clock, during the Autumn, Spring and Summer Terms. In addition to the ordinary lectures, one meeting a week is devoted to tutorial work. This is obligatory on all members of the Class (a minimum of one hour a week for each student).

The work of the Class consists of:—

1. A course of lectures and discussions on the History of French Literature.
2. A course of lectures and discussions on the History of French civilisation in its relation to Literature.
3. Interpretation of French Authors.
4. Translation from English into French and from French into English, and lectures on selected questions of French Philology and Grammar.

Students who have attained a satisfactory standard in the work of the Autumn and Spring Terms will be exempted from attendance during the Summer Term, provided they give reasons for exemption which are satisfactory to the Senatus.

The tutorial instruction given during the Summer Term is intended to supply, so far as possible, the results secured by residence abroad: practice in the spoken language, free composition, *vivid voce* translation, study of the "Realia" of French Life. This instruction will therefore tend to meet the needs of those students who are unable to complete their linguistic training by residence in France.

(b) Second Ordinary and Intermediate Course.

PROFESSOR SAROLEA, DR MARY BURNS, and Assistants.

This Class meets at 3 o'clock on Tuesdays, Thursdays, and Fridays. In addition to the ordinary lectures, each student is required to attend one tutorial class a week.

The work covers the same subjects as in the Ordinary Course, but is on a higher standard; it will also be more of a tutorial character, debates and discussions sometimes taking the place of set lectures.

The lectures on the History of French Literature and on the History of French Civilisation of the Ordinary Course, under headings (1) and (2), may be attended by members of this Class on Wednesdays.

The regulations of the Ordinary Course as to exemption from attendance during the Summer Term apply equally to the Intermediate Class.

The Subjects of Examination in French for the Ordinary Degree of M.A. are as follows:—

Passages from French Authors not prescribed. French Prose Composition. A general knowledge of the development of the French language. A general knowledge of the growth of French civilisation, with a more minute knowledge of the authors and periods prescribed.

Every candidate is required to satisfy the Examiners in translating from English into French prose.

For June and October 1919.

FIRST COURSE.

(a) *Chanson de Roland*—Montaigne, *Essais*, book i.—La Fontaine, *Fables*—La Bruyère, *Caractères*—Boileau, *Art Poétique*—Rousseau, *Émile*—Balzac, *Père Goriot*—Victor Hugo, *Hernani*, *Ruy Blas*, *Burgraves*—Vogüé, *Les Morts qui parlent*—Ségur, *Campagne de Russie*—Sarolea, *Réveil de la France*—Mignet, *Révolution française*.

(b) Corneille, *Polyeucte* (Hachette)—Racine, *Britannicus* (Hachette)—Molière, *L'Avare* (Manchester Press)—*Les Cent Meilleurs Poèmes* (Gowans and Gray)—*French Prose from Calvin to Anatole France*, parts iii. and iv. (Dent).

SECOND COURSE (see page 163).

(a) *Chanson de Roland*—Montaigne, *Essais*, book ii.—Clédat, *Morceaux choisis*—Saint-Simon, *La Cour du Régent*—Pascal, *Pensées*—Bossuet, *Oraisons funèbres*—*Théâtre classique* (Hachette)—Veuillot, *Odeurs de Paris*—Fromentin, *Maîtres d'autrefois*—Daudet, *Numa Roumestan*—Victor Hugo, *Légende des Siècles*—Lanson, *Histoire de la littérature française*—Thamin, *Moralistes français*.

(b) *Chrestomathie du moyen âge* (ed. Clédat: Hachette)—Malherbe, *Poésies* (Gowans and Gray)—Voltaire, *Zaïre* (Heath)—V. Hugo, *Hernani*—*Anthologie française* (Nelson)—*French Prose from Calvin to Anatole France*, parts i. and ii. (Dent).

For June and October 1920.

FIRST COURSE.

(a) *Chanson de Roland*—Montaigne, *Essais*, book i.—*Morceaux choisis du 16^e siècle*—*Anthologie* (Nelson)—Duruy, *Histoire de France*—Bazin, *Douce France*—Foncin, *Première Année de Géographie*—Molière, *Théâtre choisi*—Bossuet, *Oraisons funèbres*—Rousseau, *Emile*—Lévy, *Napoléon intime*—Mignet, *Révolution française*—V. Hugo, *Morceaux choisis*—Balzac, *Eugénie Grandet*, *Recherche de l'Absolu*, César Birotteau—Rostand, *Chantecler*—Bazin, *Les Oberlé*.

(b) Corneille, *Le Cid*—Molière, *L'Avare*—Mme. de Sévigné, *Lettres* (Manchester Press)—*Anthologie française* (Nelson)—*French Prose from Calvin to Anatole France* (Dent)—Anatole France, *Le Crime de Sylvestre Bonnard* (Calmann-Lévy).

SECOND COURSE (see page 163).

(a) Clédat, *Moyen Age*—Montaigne, *Essais*—Duruy, *Histoire de France*—Rambaud, *Civilisation française*—Lanson, *Littérature française*—Molière, *Théâtre choisi*, *Théâtre classique*—Saint-Simon, *Scènes et Portraits*—Bossuet, *Discours sur l'histoire universelle*—Rousseau, *Petit chefs d'œuvre*, *Emile*—Victor Hugo, *Châtiments*, *Légende des siècles*—Balzac, *Les Paysans*, *Curé de Village*, *Médecin de campagne*—Delagrave, *Poètes du 19^e siècle*.

(b) *La Chanson de Roland* (ed. Clédat ; Garnier)—Ronsard, *Poésies*—Malherbe, *Poésies* (Gowans and Gray)—Boileau, *Art poétique* (Cambridge Univ. Press)—Racine, *Britannicus* (Hachette)—Vigny, *Poèmes choisis* (Manchester Univ. Press)—Heredia, *Trophées* (Lemerre).

(c) Honours Course.

PROFESSOR SAROLEA, DR MARY BURNS, and Assistants.

This Class meets on Mondays, Wednesdays, and Thursdays, at 4 o'clock, during the Autumn and Spring Terms. An additional hour each week is devoted to tutorial work, which is obligatory on all members of the Class.

The Summer Term is optional, being intended for those Honours students who are not going abroad. These will attend the lectures of the Second Ordinary Course.

The work of the Class consists of:—

1. Lectures, discussions and debates on the History of French Literature and Culture.
2. Interpretation of Old French Texts and linguistic study of Modern French.
3. Translation into French and into English.
4. Interpretation and Criticism of Authors.

Students who intend to specialise in French are strongly recommended to take Latin as one of their additional subjects.

Candidates for Honours are recommended to take the Intermediate Class before entering the Honours Class, the complete curriculum being four years—one in the Ordinary Class, one in the Intermediate, and two in the Honours Class.

Double Courses for Ordinary Degree of M.A.

The following combinations of the above Courses are recognised as constituting a *Double Course* in French for the Ordinary Degree of M.A.—the Courses to be taken in the order in which they are named :—

- I. (a) and (b).
- II. (a) and (c).
- III. (b) and (c).

The student must satisfy the Lecturers in French, by passing an examination or otherwise, of his ability to enter a more advanced Class.

The Subjects of Examination in French for the Degree of M.A. with HONOURS IN MODERN LANGUAGES AND LITERATURE, or with HONOURS IN LATIN AND FRENCH, are given on p. 168.

**GERMAN LANGUAGE AND LITERATURE AND
TEUTONIC PHILOLOGY.**

OTTO SCHLAPP, Dr.philos., *Lecturer*; H. F. EGGELING, M.A.,
Junior Lecturer, and the Assistant and Tutor.

(a) First Ordinary Course.

DR SCHLAPP, MR EGGELING, and Assistant.

This Class meets three times a week during the Autumn and Spring Terms (4 to 5). Besides, every student is obliged to attend *two* tutorial lessons per week. During the Summer Term the Class meets twice a week (from 4 to 5). Students are obliged to attend *one* additional tutorial lesson a week.

The work of the Course embraces: Translation from contemporary, modern, and later Mediaeval German Prose and Verse (fortnightly), translation into German from simple English

Prose and Verse (weekly) (twenty-four lectures),¹ short German Essays (fortnightly), interpretation of works selected chiefly from modern authors (drama, fiction, lyrics and ballads, and essays), a special course of twenty-four lectures in German, on subjects to be announced for each year, a study of phases of German social history and "Kulturgeschichte," a study of the lives of the authors read, a study of German syntax, word formation, vocabulary and synonyms, written examinations on the work prescribed and on unseen texts.

The tutorial lessons provided afford a training of the ear in understanding spoken German, practice in German pronunciation, reading aloud, recitation, conversation, *vivid voce* translation from and into German, oral free composition, a study of the vocabulary and idiom of ordinary spoken German, and a study of selected chapters of syntax and style.

Students who have attained a satisfactory standard in the work of the Autumn and Spring Terms may be exempted from attendance during the Summer Term, provided they give reasons for exemption which are satisfactory to the Senatus.

Fee for the whole course, including Summer Term, £4, 4s.

(b) Second Ordinary Course.

DR SCHLAPP, MR EGDELING, and Assistant.

This Class meets three times a week, from 4 to 5, during the Autumn and Spring Terms. Besides, each student is obliged to attend *two* tutorial lessons per week. During the Summer Term the Class meets twice a week (from 4 to 5 P.M.), and students are obliged to attend *one* additional tutorial lesson per week. The work of this Class is in every respect a continuation of the work of the first year on a wider basis and a higher level. It also includes the study of some specimens of earlier Mediæval German literature, a short course of twenty-four lectures on exercises in German prose,¹ and a short course of twenty-four lectures in German on subjects to be announced for each year.¹

The Regulations under (a) as to exemption from attendance during a third term apply in the case of (b) likewise. The fees in the case of (b) are the same as those given under (a).

¹ These short Courses of lectures may be taken separately. Fee, £1, 1s., and, for non-matriculated students, University Entrance Fee, 5s.

The Subjects of Examination in German for the Ordinary Degree of M.A. are as follows :—

Passages from German Authors prescribed and not prescribed. German prose composition and essay. Prescribed old texts. Grammar. A general knowledge of the development of the language. Some general knowledge of certain phases of German Social History, and of the History of German Literature, with a more minute knowledge of the Authors and Works prescribed and of the period from 1740 to the present day.

Every candidate is required to satisfy the Examiners in translating from and into German in the German essay, and in the oral test.

N.B.—Owing to the war, the following lists are subject to modification.

For October 1919.

FIRST COURSE (see p. 167).

LANGUAGE.—Weise, *Muttersprache* (Teubner)—*Historie von Herzog Ernst* (Inselb.)—14. u. 15. *Jahrhundert* (Göschen)—Luther (Göschen) 17. u. 18. *Jahrhundert* (Göschen)—Brandt, *German Grammar* (Boston : Allyn & Bacon)—Viëtor, *Aussprache des Schriftdeutschen*. LITERATURE.—Goethe, *Iphigenie* (Pitt Press)—Schiller, *Tell* (Pitt Press)—Kleist, *Prinz von Homburg* (Gräser)—Uhland, *Gedichte*—Heine, *Die Heimkehr*—Seidel, *Leberecht Hühnchen*—Keller, *Fähnlein der sieben Aufrechten*—Sudermann, *Frau Sorge*—Bühlau, *Ratsmädelgeschichten*—Hauptmann, *Versunkene Glocke*—Schönherr, *Glaube und Heimat*—Moderne erzählende Prosa, Bd. iii. (Velhagen)—*Wiesbadener Volksbücher*, 2, 16, 35, 38, 44, 52—*Die Ernte*, vol. i. SOCIAL HISTORY AND “KULTURGESCHICHTE.”—Weise, *Deutsche Volksstämme und Landschaften* (Teubner)—Meringer, *Das deutsche Haus* (Teubner)—Paulsen, *Deutsches Bildungswesen* (Teubner)—Weber, *Von Luther bis Bismarck*, i., ii. (Teubner)—Paszkowski, *Deutsches Lesebuch*.

Oral examination on *Tell*, *Ernte* i., and Paulsen.

SECOND COURSE (see p. 167).

LANGUAGE.—Weise, *Muttersprache* (Teubner)—*Nibelunge* (Göschen)—*Die schon Magelona* (Inselbücherei)—Sachs (Göschen)—*Simplicissimus* (Göschen)—Reuter, *Hanne Nüte*—Brandt, *German Grammar*—Viëtor, *Aussprache des Schriftdeutschen*. LITERATURE.—Bruinier, *Minnesang* (Teubner)—Walter von der Vogelweide (Göschen)—*Volkshied*, i. u. ii. (Göschen)—Goethe, *Hermann und Dorothea*; *Gedichte* (Auswahl ed. Harnack)—Bode, *Goethes Lebenskunst*—Schiller, *Wallenstein* (Pitt Press)—Humboldt, Schiller (Inselb.)—J. Paul Richter, *Schulmeisterlein Maria Wux* (Inselb.)—Heine, *Nordseebilder*—Mörke, *Gedichte*—Meyer, *Hochzeit des Mönchs*—Storm, *Schimmelreiter*—Münchhausen, *Balladen*—Schönherr, *Erde*—Forbes-Mosse, *Der kleine Tod*—*Die Ernte*, vol. ii. SOCIAL HISTORY AND “KULTURGESCHICHTE.”—Mielke, *Das deutsche Dorf* (Teubner)—Wernher, *Helmbrecht* (ed. Keinz)—Heil, *Deutsche Städte* (Teubner)—Gurlitt, Wittenberg—Kügelgen, *Jugenderinnerungen*—Aufsätze zur deutschen Geschichte (Velhagen)—Paszkowski, *Deutsches Lesebuch*—Rohrbach, *Der deutsche Gedanke in der Welt*.

Oral examination on Goethe (Harnack), *Schimmelreiter*, and *Ernte*, ii.

For June and October 1920.

FIRST COURSE (see p. 167).

LANGUAGE. — Weise, *Muttersprache*, (Teubner) — 14. u. 15. Jahrhundert (Götschen) — Hans Sachs (Götschen) — *Die schon Magelona* (Inselbücherei) — Reuter, *Hanne Nüte* — Brandt, *German Grammar* — Viëtor, *Aussprache des Schriftdeutschen* — Grimm, *Über die deutsche Sprache* (Inselb.) LITERATURE. — 17. u. 18. Jahrhundert (Götschen) — Lessing, *Nathan* — Schiller, *Wallenstein* (Pitt Press) — Goethe, *Hermann u. Dorothea* — Heine, *Harzreise*, *Intermezzo u. Heimkehr* — Mörike, *Gedichte* — Schopenhauer, *Über Lesen und Bücher* (Inselb.) — Grillparzer, *Der arme Spielmann* (Inselb.) — Böhlau, *Neue Ratsmädchengeschichten* — Schönherr, *Erde* — Halbe, *Jugend* — Forbes-Mosse, *Der kleine Tod*, *Die Ernte*, i. SOCIAL HISTORY. — Notker, *Karl der Grosse* (Inselb.) — Weise, *Deutsche Volksstämme und Landschaften* (Teubner) — Mielke, *Das deutsche Dorf* (Teubner) — Heil, *Deutsche Städte im Mittelalter* (Teubner) — *Unser Frauen Wunder* (Inselb.) — Butzbach, *Wanderbüchlein* (Inselb.)

Oral examination on *Volksstämme*, *Ernte*, i.

SECOND COURSE.

LANGUAGE. — Weise, *Muttersprache* (Teubner) — *Der arme Heinrich*, Hartmann von Aue (ed. Robertson) — 14. u. 15. Jahrhundert (Götschen) — *Von Brant bis Rollenhagen* (Götschen) — *Das deutsche Volkslied*, i. u. ii. (Götschen) — Reuter, *Franzosentid* — Brandt, *Historical German Grammar* — Viëtor, *Aussprache des Schriftdeutschen*. LITERATURE. — Bruinier, *Minnesang* (Teubner) — Winckelmann, *Musterstücke* ed. Kühne — Goethe, *Iphigenie* (Pitt Press), *Tasso* (Manchester University Press) — Schiller, *Philosophische Gedichte* — Humboldt, *Schiller* (Inselb.) — Heine, *Nordseebilder* — Droste Hülshoff, *Gedichte* (Inselb.) — Storm, *Aquis submersus* — Meyer, *Die Richterin*, *Hutten's letzte Tage* — Hauptmann, *Der arme Heinrich* — *Die Ernte*, ii. SOCIAL HISTORY. — *Das deutsche Bauernhaus* (Teubner) — Werner der Gaertenaere, *Meier Helmbrecht* (ed. Keinz) — *Deutsche Burgenkunde*, Piper (Götschen) — Ziegler, *Universitätswesen* (Teubner) — Paszkowski, *Deutsches Lesebuch* — Rohrbach, *Der deutsche Gedanke*.

Oral examination on Heine, *Nordseebilder*, *Ernte*, ii., and Paszkowski.

SPECIAL TUTORIAL COURSE in German, for Science Students and others.

This course—open only to Matriculated Students—is intended for those desirous of obtaining a reading knowledge of German.

The Class meets in the Autumn and Spring Terms, at 5 P.M., on Tuesdays, Thursdays, and Fridays. Fee for the course, £2, 2s.

(c) Honours Course.

DR SCHLAPP, MR EGELING, and Assistant.

The work prescribed for the Honours Degree examination is spread over two years. The Class meets during the Autumn and Spring Terms daily from 3 to 4. Attendance on two tutorial lessons per week is obligatory on all members of the Class.

During the Summer Term practical tutorial instruction of an advanced character is given daily. This Summer Class is optional, and intended for those Honours students who are not going abroad.

The work of the course embraces translation (fortnightly) from German Prose and Verse (advanced texts), including a critical analysis of the style of the passages; translation (weekly) from English Prose (advanced texts, *e.g.* Lamb, Hazlitt, Ruskin, Carlyle, Stevenson, Pater, Meredith, Shaw);¹ essays in German (fortnightly); critical papers in English; translation and interpretation of mediæval texts, of texts illustrating the older forms of modern German and of texts in modern dialects; interpretation of characteristic works of mediæval, modern, and contemporary authors; a course of lectures in German on subjects to be announced for each year;¹ a study of selected essays on German Social History, or chapters of German "Kulturgeschichte"; a study of special chapters of German Philology and Historical Grammar; a study of the lives and times of the authors read; a course of private reading and research, with instruction in the use of the Reference Department of the German Library; written examinations on the work prescribed and on unseen texts.

Fee for the Autumn and Spring Terms, £4, 4s.

Fee for Summer Term, £2, 2s.

Double Course for Ordinary Degree of M.A.

The following combinations of the above Courses are recognised as constituting a *Double Course* in German for the Ordinary Degree of M.A.—the Courses to be taken in the order in which they are named:—

- I. (a) and (b).
- II. (a) and (c).
- III. (b) and (c).

The student must satisfy the Lecturers in German, by passing an examination or otherwise, of his ability to enter a more advanced Class.

The Subjects of Examination in German for the Degree of M.A. with HONOURS IN MODERN LANGUAGES AND LITERATURE are given below.

¹ A Course of sixteen lectures, which may be taken separately. Fee, £1, 1s., and, for non-matriculated students, University Entrance Fee, 5s.

HONOURS EXAMINATION IN MODERN LANGUAGES AND LITERATURE.

Candidates for Honours must attend *at least* four complete courses in Modern Languages, two in French and two in German. Two of these courses must be Honours Courses, one in each subject. Candidates are advised to take the Ordinary classes in French or German (or, in the case of specially proficient students, the Intermediate classes) during the first year, the two additional subjects and part of the Intermediate courses in French and German during the second year, and to reserve the last two years for reading in Honours exclusively. They should spend abroad as much of the Vacation as possible. If in the Ordinary or Intermediate class they reach at the end of the second term the standard of a second class certificate, they may be exempted from attendance during the third term, on the understanding that they spend it abroad. *It is very desirable that all students reading for Honours should, on entering upon their University course, consult their teachers as to their curriculum.*

French.

NOTE.—This is also the programme of work in French under the Honours group "Latin and French."

French Composition and Translation of unseen passages. Text-books—The Professor's *French Composition* (Thin); the Lecturer's and Mr Moore's *Manual of French Composition and Translation from French* (Cambridge University Press).

French History.—A general knowledge of French History, and a more minute knowledge of the period from 1789 to 1870. Books recommended:—Michelet, *Révolution française*—Taine, *Origines de la France contemporaine*—Thiers, *Consulat et Empire*—Jallifier et Vast, *Histoire contemporaine* (Paris, Garnier).

French Literature.—A general knowledge of the history of French Literature, and a special knowledge of the period from 1800 to 1900.

French Language.—(1) General knowledge of the development of French out of Latin. (2) Special study of the French of the XVIIIth century. (3) Special study of the language of prescribed modern prose authors.

Books prescribed:—Darmesteter, *Historical French Grammar*, transl. Hartog (Macmillan, 1899), especially books ii. and iv.—Bourciez, *Précis historique* (Paris: Klincksieck, 1900)—Darmesteter and Hatzfeld, *Le XVI siècle (Tableau de la langue)* (Paris, Delagrave)—Brunot, *Histoire de la langue française* (Paris, Colin, 1905-1912).

In addition to the work for the Honours Examination, a candidate may offer a thesis, and if he aims at obtaining First Class Honours he is required to do so.

HONOURS EXAMINATION IN MODERN LANGUAGES, ETC. 169

The conditions are as follows :—

1. The thesis may be written in English or in French at the option of the candidate.

2. It should not exceed 8000 words in length.

3. A subject or subjects shall be suggested, by the Lecturers in French and the External Examiner, not later than the end of the Spring Term of the preceding year.

But a candidate may himself propose a subject, to be approved by the Lecturers and Examiner. If he does so, he must propose it at least a month before the end of the Spring Term.

4. The thesis must be sent in on the first day of the Term in which the Honours Examination is held (*i.e.* in January, with the Honours Examination in March).

Subjects for 1920.

Literature.

Clédat, *Morceaux choisis*—Darmesteter, *Morceaux choisis*—Montaigne, *Essais*—Saint-Simon, *Scènes et portraits*—Rousseau, *Confessions*—*Anthologie des Poètes* (Pallas)—*Anthologie des Prosateurs* (Pallas)—Balzac, *Médecin de campagne*, *Curé de village*—Maupassant, *Œuvres choisies*—Barbusse, *Le Feu*—Lanson, *Histoire de la Littérature française*—Jullian, *Historiens* français.

Language.

Aucassin et Nicolette (Champion)—Ronsard (Gowans and Gray)—André Chénier (Gowans and Gray)—Rousseau, *Du Contrat social* (Manchester Press)—Michelet, *Pages choisies* (Colin); *Anthologie du Théâtre français contemporain* (Prose Delagrave).

Subjects for 1921.

Literature.

(a) Clédat, *Moyen Âge*—Bréal, *Sémantique*—Rabelais, *Morceaux choisis*—Montaigne, *Essais*, 3^e Livre—Jullian, *Historiens français. Théâtre classique*—Montesquieu, *Esprit des Lois*—Rousseau, *Contrat Social, Confessions*—Mme. de Staël, *Allemagne*—Balzac, *Peau de Chagrin*—Bazin, *La Terre qui meurt*—Vogué, *Les Morts qui parlent*, *Le Maître de la Mer*—V. Hugo, *Les Misérables*—Avant, *Pendant*, *Après l'Exil*—Romain Rolland, *Jean Christophe*—Rostand, *L'Aiglon*.

Language.

(b) *Le Mystère d'Adam* (Manchester Univ. Press)—Clédat, *Chrestomathie du moyen âge* (Hachette)—Buffon, *Discours sur le style* (Hachette)—Fénelon, *Lettre à l'Académie* (Hachette)—J. J. Rousseau, *Morceaux choisis* (Didier)—Kastner, *Selected Passages* (Hachette).

German.

German Language.—Translation from texts mediæval and modern, prescribed and not prescribed. German Prose composition at sight. German Essay. German Grammar. Oral Test. Chapters of German Historical Grammar as contained in Brandt's *German Grammar* (Boston: Allyn & Bacon).

German Social History and "Kulturgeschichte."—A knowledge of the subject, mainly in its bearing upon the interpretation of German literature and the understanding of contemporary German life.

German Literature.—A general knowledge of the subject, and a more special knowledge of the authors and works prescribed, and of the period from 1740 to 1914.

Every candidate is required to satisfy the Examiners in translation from and into German, in the German essay, and in the oral test.

N.B.—Owing to the war, the following lists are subject to modification.

Subjects for 1920.

LANGUAGE. — Sandfeld - Jensen, *Sprachwissenschaft* (Teubner) — Schaffler, *Althochdeutsche Literatur* (Göschen) — *Mittelhochdeutsche Frühzeit* (Göschen) — Wolfram von Eschenbach, *Gottfried von Strassburg* (Göschen) — Reinke de Vos — Suckmann, *Plattdeutsche Predigten* (Inselb.) — Ernst, *Proben deutscher Mundarten* (Velhagen) — Brandt, *German Grammar* (Historical). LITERATURE. — Herder, *Von deutscher Art und Kunst* (ed. Lambel) — Winckelmann, *Musterstücke* (ed. Kühne) — Goethe, *Iphigenie, Elegien, Tasso* — Schiller, *Philosophische Gedichte; Naive und sentimentalische Dichtung* (Gräser) — Storm, *Aquis submersus* — Meyer, *Huttens letzte Tage; Richter in* — Keller, *Gedichte* — Hauptmann, *Der arme Heinrich* — Schlaf, *In Dingsda* — Dehmel, *Gedichte* (Auswahl) — Altenberg, *Bilderbögen* — Hofmannsthal, *Tod des Tizian* — Viebig, *Das schlafende Heer* — Huch, *Joh. Wonnebald* (Inselb.) — Bahr, *Essays*. SOCIAL HISTORY AND "KULTURGESCHICHTE." — Steinhausen, *Germanische Kultur der Urzeit* (Teubner) — Olrik, *Nordisches Geistesleben* — Dieffenbacher, *Deutsches Privatleben im 12. u. 13. Jahrhundert* (Göschen) — Vedel, *Mittelalterliche Kulturideale* (Teubner) — Ranck, *Das deutsche Bauernhaus* (Teubner) — Gerdes, *Der deutsche Bauernstand* (Teubner) — Bismarck, *Vier politische Reden* (Inselb.) — Treitschke, *Die Freiheit* (Inselb.) — Ellen Key, *Frauenbewegung* (Gesellschaft) — Ziegler, *Universitätswesen* (Teubner) — Natorp, *Tag des Deutschen* (Fischer) — Troeltsch, *Deutsche Freiheit* (Fischer).

Oral examination on Keller, Altenberg, Bahr.

Subjects for 1921.

LANGUAGE. — *Althochdeutsche Literatur*, ed. Schaffler (Göschen) — *Mittelhochdeutsche Frühzeit*, ed. Yanzen (Göschen) — *Walter von der Vogelweide* (ed. Paul) — Wernher der Gaertenaere, *Meier Helmbrecht* (ed. Keinz) — *Die Epigonen des höfischen Epos*, ed. Yanck (Göschen) — Luther, *An den christlichen Adel* — Kluge, *Unser Deutsch* — Brandt, *Historical German Grammar*. LITERATURE. — Puppenspiel vom Dr. Faust (Inselbücherei) — Kant, *Beobachtungen* (Inselb.) — Herder, *Von deutscher Art und Kunst* (ed. Lambel) — W. v. Humboldt, *Schiller* (Inselb.) — Goethe, *Gedichte: Gott*

und Welt—Hebbel, *Gedichte*—Schopenhauer, *Über Schriftsteller und Stil* (Inselb.)—Storm, *Schimmelreiter*—Nietzsche, *Also sprach Zarathustra*—Spitteler, *Olympischer Frühling*—Hofmannsthal, *Gedichte und Kleine Dramen* (Inselverlag)—R. Huch, *Gottfried Keller*—R. M. Rilke, *Marientleben* (Inselb.)—Dehmel, *Gedichte* (Auswahl)—Bahr, *Dialog vom Marsyas*. SOCIAL HISTORY.—Tacitus, *Germania* (Inselb.)—Fuhse, *Deutsche Altertümer* (Götschen)—Dieffenbacher, *Deutsches Leben im 12. u. 13. Jahrh.* (Götschen)—Vedel, *Mittelalterliche Kulturideale* (Teubner)—Dürer, *Tagebuch der Reise nach den Niederlanden* (Inselb.)—Friedrich der Grosse, *Drei politische Reden* (Inselb.)—Herder, *Ideen zur Kulturphilosophie* (Inselb.)—Paulsen, *Deutsches Bildungswesen* (Teubner)—Braasch, *Religiöse Strömungen* (Teubner)—C. Fischer, *Auseinem Arbeiterleben* (Diederichs)—W. Rathenau, *Kritik unserer Zeit*.

Oral examination on Goethe, *Gott und Welt*; Herder, *Kulturphilosophie*; and Vedel, *Mittelalterliche Kulturideale*.

SCHOLARSHIPS in the Department of Modern Languages, open 1919-20, Scott (George), p. 288; Vans Dunlop, p. 294.

BURSARY, Lanfine, p. 309.

SANSKRIT AND COMPARATIVE PHILOLOGY.

PROFESSOR A. BERRIEDALE KEITH.

A. Sanskrit Language and Literature.

1. *Junior Class*—2 to 3 P.M. Instruction in the elements of Sanskrit Grammar; text-book, Macdonell's *Sanskrit Grammar* (Longmans, Green & Co.). Translation and explanation of easy texts, such as *Nalopākhyāna*, and selected fables. Easy translations from English into Sanskrit, chiefly from Bhandarkar's First and Second Books of Sanskrit (Bombay, 1913 and 1914).¹

The work of the Junior Class is intended to lead up to the standard of the Preliminary Examination in Sanskrit. Students proposing to attend it should make themselves familiar with the Devanāgarī characters and mode of transcription, as explained in chap. i. of Macdonell's *Grammar*.

2. *Senior Class*—3 to 4 P.M. This being the Graduating Class, students proposing to attend it with a view to graduation in Arts must previously have passed an examination under section IV. subsection 3 of the Ordinance, consisting of plain passages for translation from and into Sanskrit, and grammatical questions.

¹ These books can be obtained from B. H. Blackwell, 50 Broad Street, Oxford.

The work of the Senior Class will be distributed as follows : Three days a week of the Autumn and Spring Terms will be devoted to the interpretation of Sanskrit works, such as *Hitopadeśa*, *Pancatantra*, Kālidāsa's *Raghuvamśa*, *Kumārasambhava*, and *Śakuntalā*, Manu's *Institutes of Law*, Episodes from the Epic Poems, and selected hymns of the *Rigveda* ; one day will be given to the revision of the Grammar and Sanskrit composition, and the remaining day to the history of Sanskrit Literature, of which a general knowledge is necessary for the M.A. examination. Text-book, Macdonell's *Sanskrit Literature* (W. Heinemann).

Second Course of Senior Class.—A student who has passed the Degree examination after his first senior course, or has obtained a first or second class Certificate of Merit, may take the Senior Course a second time, when his Class and Degree work will be the ordinary work for that year, but he will be required to attain to a higher standard in both, and to study some texts in addition to those prescribed for the First Year Class for home-reading.

B. Comparative Philology.

The Professor will be prepared to deliver a Course of Lectures on the Principles of the Comparative Philology of the Indo-European languages and the History of Linguistic Studies, provided a sufficient number of students give in their names.

The Subjects of Examination in Sanskrit for the Ordinary Degree of M.A. are as follows:—

Hitopadeśa (ed. by Godabole and Parab; Bombay, 1907), book ii.—*Nalopākhyāna* (ed. by Eggeling; Edinburgh, 1913) : *First Course*—Cantos 1-12. *Second Course*—Cantos 1-26—Sanskrit Grammar—Sanskrit prose composition.

A general knowledge of the history of Sanskrit Literature, including such portions of the political history of India as bear on that subject, up to 1000 A.D.

The Subjects of Examination in Comparative Philology for the Degree of M.A. with HONOURS IN CLASSICS are given on page 151.

SCHOLARSHIP in the Department of Sanskrit, open 1919-20, Vans Dunlop, p. 293.

HEBREW AND ARAMAIC.

PROFESSOR KENNEDY.

The following classes are provided for students taking Hebrew as a subject for Graduation in Arts :—

Elementary and Junior Courses.

1. *An Elementary or Beginners' Class*, meeting on Tuesdays and Thursdays, for three Terms, at 2 P.M. Textbook, Davidson's *Introductory Hebrew Grammar*.

This Class prepares intending students of Divinity for the Entrance examinations of the various Churches.

2. *Junior Class*, meeting four times a week (Mondays, Tuesdays, Thursdays, Fridays), for three Terms, at 10 A.M. Revision of Grammar with home exercises, reading of easy prose passages (Genesis, Ruth, etc.), and of selected Psalms.

This Class prepares for the Preliminary examination required of all students taking Hebrew as a graduating subject, in terms of the Ordinance. The Examination includes questions on Grammar, and plain passages to translate from and into Hebrew.

Members of the Junior Class are understood to have already mastered the elements of the Grammar as represented by, at least, sections 1 to 30 of the textbook.

First Ordinary Course.

3. *Senior or Graduating Class*, meeting five days a week at 9 A.M. during the Autumn and Spring Terms. Three hours a week are occupied with the critical study of selected portions of the historical, prophetic, and poetical books of the Old Testament. These vary from year to year, and always comprise a considerable part of the books prescribed for the ordinary Degree of M.A. (see below). The other two hours are devoted to lectures on the History and Literature of the Hebrews (Wednesdays), to the study of the syntax, and to prose composition.

Second Ordinary Course.

4. Students taking the Senior Class as a second course for graduation have to give evidence of fitness either (1) by passing the M.A. examination in Hebrew on the ordinary standard, or (2) by obtaining a first or second class certificate for the work of

the Ordinary Class. They are also required to pass the Term examinations in the second year of attendance on a higher standard.

The books to be studied will be those for the Ordinary Course for the year, with portions of more difficult authors on Wednesdays (see the books prescribed for graduation below).

Honours Courses.

5. (a) An *Honours* Hebrew Class, meeting three times a week for the three Terms, at 10 A.M., devoted to the study of some of the more difficult books of the Old Testament, and of texts in post-biblical Hebrew (Mishna and Jewish Commentaries). Lectures will be given on Hebrew literature (biblical and post-biblical), and on the Comparative Grammar of the Semitic Languages. There are also weekly exercises in prose composition.

(b) A Class for the study of Aramaic, meeting twice a week throughout the Session, at an hour to suit intending students. East Aramaic (Syriac) and West Aramaic ("Chaldee") will be taken up in alternate years.

The Subjects of Examination in Hebrew for the Ordinary Degree of M.A. in 1920 are as follows:—

First Course.

1. Questions in Grammar. 2. Translation into Hebrew Prose. 3. Exodus, i.-xiv., xix.-xxiv.; Amos, Joel; Psalms, i.-xxiv. 4. Short passage from an historical book to translate at sight. 5. *Hebrew History and Literature* during the period of the Monarchy.

Second Course.

1. More advanced Grammar, including Syntax. 2. Translation into Hebrew Prose. 3. The books prescribed for the ordinary course, also Isaiah lvi.-lxvi., Job i.-x. 4. Unseen passages, pointed and unpointed, from historical books. 5. A general knowledge of Hebrew History and Literature, with special attention to the books studied.

The Degree Examination consists of three papers of two hours each. Of these, one is on the prescribed books; translation at sight, prose composition, history, literature, and grammar form the main subjects of the other two.

Candidates who have obtained a first- or a second-class certificate in the Term Examinations of the Class are not required to take the paper on the set books.

The Subjects of Examination in Hebrew for the Degree of M.A. with HONOURS IN SEMITIC LANGUAGES are given on page 176.

ARABIC.

EDWARD ROBERTSON, M.A., B.D., D.Litt., *Lecturer*.

The following classes are provided for students taking Arabic as a subject for Graduation in Arts:—

1. *Junior Class* for beginners, meeting on Tuesdays, Thursdays, and Fridays for three Terms at 2 P.M.

Textbooks.—Socin's *Grammar*; Thornton and Nicholson, *Elementary Arabic: First Reading Book*.

The Class prepares for the Preliminary examination required of all students taking Arabic as a graduating subject. The examination includes questions on Grammar, and translation from and into Arabic.

One hour per week of this Class will be devoted to the study of MODERN ARABIC (Egyptian).

Textbook.—Green's *Practical Arabic Grammar*.

2. *Senior or Graduating Class*, meeting on Tuesdays, Thursdays, and Fridays for three Terms, at 3 P.M. The work comprises more advanced reading in prose and poetry, the study of the syntax, prose composition, and lectures on history.

Textbooks.—*The Koran* (Fluegel's edition), or Nallino's *Chrestomathia Qorani Arabica*; De Goeje's *Selections from the Annals of Tabari*; *Kalilah wa-Dimnah* (Beyrout edition); Noeldeke and Mueller's *Delectus Veterum Carminum Arabicorum*; *Al-Ajurrūmiyah*; Wright's *Arabic Grammar* (3rd edition).

3. *Honours Class*, meeting three days a week at 4 P.M. The work of the Class consists of reading more difficult authors in prose and poetry, advanced study of syntax (including native Arabic grammar), prose composition, practice in reading manuscripts, and lectures on the History and Literature of the Arabs (see below).

The Subjects of Examination in Arabic for the Ordinary Degree of M.A. are as follows:—

1. Questions in Grammar. 2. Translation into Arabic Prose. 3. De Goeje's *Selections from the Annals of Tabari*; *The Koran*, Selected Suras as in Nallino's *Chrestomathia Qorani Arabica*; *Kalilah wa-Dimnah* (Beyrout edition), pp. 108-126; Noeldeke, *Delectus Veterum Carminum*, etc. (selections); *Al-Ajurrūmiyah*. 4. Short passage of easy prose to translate at sight. 5. *History of the Chaliphate to 132 A.H.*

The Degree Examination consists of three papers of two hours each. Of these, one is on the prescribed books ; translation at sight, prose composition, history, literature, and grammar form the main subjects of the other two.

Candidates who have obtained a first- or a second-class certificate in the Term Examinations of the Class are not required to take the paper on the set books.

The Subjects of Examination in Hebrew and Arabic for the Degree of M.A. with HONOURS IN SEMITIC LANGUAGES are given below.

HONOURS EXAMINATION IN SEMITIC LANGUAGES.

Curriculum.—It is essential that Candidates for Honours in Semitic Languages, if not already familiar with Hebrew or Arabic, *begin the study of at least one of these languages in their first academic year*, as it is impossible for such students to reach an Honours standard with less than four years of continuous study. The following is an outline of the curriculum suggested :—

First Year.—Elementary Hebrew ; one or both of the extra subjects outside the Honours group.

Second Year.—Hebrew for Ordinary Degree ; Junior Arabic ; second extra subject, if not already taken.

Third Year.—Hebrew Advanced Course or Honours Class ; Arabic for Ordinary Degree ; Aramaic Class.

Fourth Year.—Hebrew Honours Class ; Arabic Honours Class ; Aramaic. Candidates are advised that a working knowledge of German is indispensable for the advanced study of the Semitic Languages.

SUBJECTS OF EXAMINATION.

1. Translation into English from prescribed books in Hebrew (biblical and post-biblical) and Arabic.
2. Translation of passages in prose and poetry from books other than those prescribed.
3. Prose Composition in Hebrew and Arabic.
4. A general knowledge of Hebrew history and literature to the close of the Talmud, and of Arabic history and literature to the end of the Abbaside period, with a more minute knowledge of the authors and books prescribed.
5. Aramaic. Translation from prescribed books, or parts of books, in East Aramaic (Syriac) and West Aramaic ("Chaldee") respectively.
6. Comparative Grammar of the Semitic Languages.

PRESCRIBED BOOKS.

Hebrew and Aramaic.

For 1920 and 1921.

Exodus i.-xxiv., Leviticus xvii.-xxvi., Jeremiah i.-xlv., Psalms, Bk. ii., Job i.-xxxix.; Mishna, *Pirgē Abōth*, i.-v. (Strack's edition); Kimchi's *Commentary on Psalms i.-x.* (Schiller-Szinessy's edition); the Aramaic parts of Daniel; *Targum* (Onkelos), Genesis i.-xii.; and the Gospel of Mark in the Peshitta Version.

Arabic.

For 1920 and 1921.

The Kor'an: Suras iii. and vi. with Baidawi's *Commentary*; selections from the *Ṣaḥīḥ* of al-Buhārī (Semitic Study Series); selections from the *Prolegomena* of Ibn Khaldun (Semitic Study Series); selections from *Alf Lailah wa-Lailah*; *Dīwān* of Ḥassān b. Thābit (ed. Hirschfeld) i.-xxv., cxxxi., and cxxxiv.; Shaikh Nāṣif's *Faṣḥa-l-Khiṭāb*.

SCHOLARSHIP in the Department of Hebrew and Semitic Languages, open 1919-20, Vans Dunlop, p. 293.

CELTIC.

PROFESSOR WATSON.

A. Graduation Class—First Ordinary Course.

Instruction is given in each of the three Terms of the Academic year. The Class meets at 4 P.M. on four days of the week during the Autumn and Spring Terms, and on three days of the week during the Summer Term. The work consists of reading of Scottish and Irish Gaelic; Lectures on Grammar and Philology; History and Literature; Composition; Papers in Unseen Translation, etc.

An examination on work done is held towards the close of each Term.

Any student who attends this Class with a view to Graduation in Arts must previously have passed an examination (under sect. IV. subsect. 3 of the Ordinance) which will be in Scottish Gaelic, or Irish Gaelic, or Welsh, and will include translations from and into English, with grammatical, literary, and easy philological questions.

The fee for a student who attends with a view to graduation is £4, 4s.; for non-graduating students, £2, 2s.

Second Ordinary Course.

A student who has passed the Degree examination after a First Course in Celtic, or has obtained a first or second class Certificate of Merit, may take the Class a second time. The Course of Study will be the ordinary work for that year, but the student will require to attain to a considerably higher standard.

Books recommended for reference.—MacBain's *Gaelic Philological Dictionary*; Dineen's *Irish Dictionary*; Douglas Hyde's *Irish Literature*; Magnus Maclean's *Literature of the Highlands*; Skene's *History of Celtic Scotland*.

B. Advanced Class.

This Class meets on three days per week at 3 P.M. The work consists of reading Old and Middle Gaelic texts; Old Irish Grammar; Lectures on Gaelic Literature, Philology, etc.

Books recommended for reference.—Thurneysen's *Hand-book of Old Irish*; Morris Jones' *Welsh Grammar*; De Jubainville's *Irish Mythological Cycle*; Eleanor Hull's *Cuchullin Saga*; Douglas Hyde's *Irish Literature*; O'Curry's *Manners and Customs of the Ancient Irish*, and *Irish Manuscript Materials*; Joyce's *Social History of Ancient Ireland*.

An Elementary Class in Scottish Gaelic, meeting on two days of the week, will be held in the Autumn and Spring Terms, if a sufficient number of students give in their names. Fee for this class, £1, 1s.

The Subjects of Examination in Celtic for the Ordinary Degree of M.A. are as follows:—

1. *Scottish Gaelic.*—Poems of William Ross; the Professor's *Specimens of Gaelic Prose, and Specimens of Gaelic Poetry*.
2. *Irish Gaelic.*—Bergin's *Stories from Keating's History of Ireland*.
3. *Old Gaelic.*—*The Death Tales of the Ulster Heroes* (Todd Lecture, Vol. 14).
4. Passages in Modern Gaelic (both Scottish and Irish) from Authors not prescribed.
5. Translation from English into Gaelic Prose (Scottish or Irish).
6. *History and Literature.*—The History of the Scottish Highlands in the 17th and 18th centuries, with special reference to the Authors read. The History of Gaelic Literature from 1560-1800 A.B.

The Degree Examination consists of three papers of two hours each. Of these one is on the prescribed books ; translation at sight, prose composition, history, and literature form the main subjects of the other two.

Candidates who have obtained a first or a second class certificate in the Terminal Examinations of the class are not required to take the paper on the set books.

If the Advanced Class be taken as a Second Course for graduation (which may be done if the student has obtained a first class merit certificate in the First Course), the books on which exemption may be obtained will be those read in class.

SCHOLARSHIP in the Department of Celtic, open 1919-20, Macpherson, p. 285.

ITALIAN.

ERNESTO GRILLO, M.A., D.Litt., LL.D., *Lecturer.*

Graduation Class.

This Class will meet on Tuesdays, Thursdays, and Fridays throughout the three Terms, from 2 to 3 P.M. Lectures will be given on the following subjects :—

A. LANGUAGE.—Grammar ; Composition ; History of the Language ; Literary Theories.

B. LITERATURE.—Outlines of Italian Literature ; Dante ; Modern Italy ; The Italian Cities.

Books.—Dante, *La Divina Commedia* ; Grillo, *The Italian Poets* ; idem, *The Italian Prose-Writers* ; idem, *La Dolce Favella* ; idem, *New Italian Grammar* (Blackie) ; idem, *Early Italian Literature* (in preparation).

The Subjects of Examination in Italian for the Ordinary Degree of M.A., and for the Degree of B.Com., are as follows :—

A. Translation from English into Italian, and *vice versa*, including texts prescribed in the Class Syllabus, and unseens.

B. Questions on the History of Italian Literature.

C. An Essay on one of the Authors studied during the session.

D. Oral Examinations.

Italian Literature.

This Class is mainly for Honours and Post-Graduate Students, and is entirely conducted in English. It meets once a week—Friday, 3-4 P.M. Lectures will be given on Italian Literature, and its relation to English, French, and Spanish Literatures.

Elementary Class.

This Class meets on Fridays, 5-6 P.M., during the first twenty weeks of the Session, for the convenience of graduating and non-graduating students, and deals with Language and Literature up to the Preliminary Standard.

Books.—Grillo, *Italian Grammar*; idem, *La Dolce Favella*; idem, *Italian Poets*.

SPANISH.

B. SANIN CANO, M.A., *Lecturer*.

Graduation Class.

The Class will meet on Mondays, Wednesdays, and Fridays throughout the three Terms, from 11 to 12. The work of the Class will consist of the study of the Spanish (Castilian) Language as written and spoken (with some account of the peculiarities of the Spanish of South America), the reading of prescribed texts, and lectures on the history of the language and literature, and of the history of Spain and Spanish America, so far as may be necessary for the intelligent study of the texts prescribed.

The following books will be used in Class:—The Lecturer's *Grammar of the Spanish Language* (Oxford: Clarendon Press); *Spanish Reader* (published by the Clarendon Press); Iriarte's *Fábulas* (Clarendon Press); Luis F. Mantilla, *Tercer Libro de Lectura* (Paris); Prof. Fitzmaurice-Kelly, *The History of Spanish Literature* (both the English and the Spanish editions); R. Altamira, *Historia de España*.

Each member of the Class must attend one Tutorial Class in the week.

The Subjects of Examination in Spanish for the Ordinary Degree of M.A., and for the Degree of B.Com., are as follows :—

Don Juan Manuel, *El Conde Lucanor* (E. Krapf, Vigo, Spain); Cervantes, *Novelas Ejemplares* (edited by La Lectura, Madrid); Calderón, *El Alcalde de Zalamea*; Larra, *Artículos* (edited by Ixart, Barcelona); P. Galdós, *Doña Perfecta*; Azorín (J. Martínez Ruiz), *Los Pueblos*; Núñez de Arce, *Un Idilio y una Elegía*; Rubén Darío, *Prosas Profanas* (C. Bouret, Paris); Jorge Isaacs, *María* (edition of Barcelona); Fitzmaurice-Kelly, *The Oxford Book of Spanish Verse* (Clarendon Press); Palacio Valdés, *José* (Heath & Co.).

An **Elementary Class**, for students who have not passed the Preliminary Examination in Spanish, will be held twice weekly at an hour to be fixed to suit the convenience of intending students. The first meeting will be held on Tuesday, 14th October, at 5 P.M., to arrange days and hour of meeting.

RUSSIAN.

HUGH G. BRENNAN, M.A., *Lecturer.*

Graduation Class.

The Class will meet on Tuesdays, Thursdays, and Fridays, during the three Terms, from 4 to 5. The work of the Class will be as follows :—

Language and Literature.

1. Advanced Grammar.

Book.—*Russian Grammar*, by Neville Forbes, M.A. (2nd edition) (Clarendon Press).

2. Russian Literature.

(a) General Outlines.

(b) Special Period, 1800-1840.

Books.—*A Literary History of Russia*, by A. Brückner, translated by H. Havelock (Fisher Unwin); *Russian Literature*, by Prince Kropotkin (revised edition) (Buckworth).

For Class Reading.—*Third Russian Book*, by Neville Forbes (Clarendon Press); *The Queen of Spades*, Pushkin (Clarendon Press).

There will be 12 Lectures on Russian Literature, and 12 Lectures on Russian Economics.

The Subjects of Examination in Russian for the Ordinary Degree of M.A., and for the Degree of B.Com., are as follows :—

A. Passages from Russian Authors, prescribed and not prescribed; Russian Prose Composition; Translation from English into Russian.
B. Grammar.—A general knowledge of the development of the Russian Language and Elementary Russian Philology. *C.* Literature, History, and Economics.—A general knowledge of Russian Literature, History, and Economics, based on the Lectures in Class and a more minute knowledge of the periods prescribed.

For June and October 1920.—Special Period, 1800-1840.

Books.—Brückner (Literature); Kropotkin (Literature); Forbes' *Third Reader*; Pushkin, *Queen of Spades*.

An **Elementary Class**, for students who have not passed the Preliminary Examination in Russian, will be held on Tuesdays and Fridays from 3 to 4.

POST-GRADUATE COURSES IN THE DEPARTMENT OF LANGUAGE AND LITERATURE.

The Courses detailed below may be classified as follows :—

I. Existing Courses, which are available for Post-Graduate Students: such students being expected to supplement these Courses by reading and research, under the direction of the Professors or Lecturers.

II. Special Courses for Post-Graduate Students, to be provided if a sufficient number of Candidates make application, and if the University Court approves of the proposed arrangements.

Graduates of this or other Universities who contemplate Post-Graduate Research should communicate with the Dean of the Faculty of Arts.

Classics.

I.

Honours Course in Latin—Professor Richmond. (See p. 144.)

Honours Course in Greek—Professor Mair. (See p. 147.)

Honours Course in Classical Archaeology—Professor Baldwin Brown. (See p. 148.)

Honours Course in Greek History—Mr Giles. (See p. 149.)

Honours Course in Roman History—Mr Giles. (See p. 149.)

II.

Course on Greek Religion—Professor Mair. Autumn and Spring Terms.
(See Post-Graduate Courses of Faculty of Divinity.)

Course on Roman Religion—Mr Giles. Spring Term. (See *ibid.*)

Course on History of Industry and Commerce in Ancient Greece—Professor Mair.

Professor Mair is willing to guide Post-Graduate Students in the study of Greek Syntax and Idiom.

Professor Richmond is willing to guide Post-Graduate Students in the principles of textual criticism, or in the study of Roman religion.

English.

I.

1. Rhetoric, and British and American Oratory. The Friday Lectures to the Ordinary Class—Professor Grierson.
2. Chaucer and Shakespeare. The Autumn Term Honours Courses in alternate years (1919, Chaucer)—Professor Grierson.
3. Literature from 1760 to 1860. Spring Honours Course.

II.

1. John Donne and the "Metaphysical" Poetry of the Seventeenth Century—Professor Grierson.
2. Scottish Poetry of the Fifteenth Century—Mr Blyth Webster.
3. Politics and Poetry in the Seventeenth Century—Mr Kitchin.
4. Literary History of London, 1580-1700—Mr Kitchin.

French.

1. The Sources of Froissart's Chronicles.
2. A critical study of Sixteenth and Seventeenth Century Translations of French Classics. Lord Berner's *Froissart*, North's *Plutarch*, Florio's *Montaigne*, Urquhart's *Rabelais*.
3. The synoptic editions of Montaigne's Essays.

German.

The following sections of the existing Honours Course in German (see p. 166) are available for Post-Graduate Students:—

Five Short Courses of Lectures or Tutorial Lessons in German
(8 per Term).

1. Language.
 - (a) German Historical Grammar, with interpretation of O.H.G., M.H.G., M.L.G., fourteenth to seventeenth century texts, and texts in modern dialects.
 - (b) Discussion of advanced exercises in German Prose (translation from authors like Ruskin, Stevenson, Pater, Meredith, Shaw).

- (c) Discussion of advanced exercises in translation from German Prose and Verse, mainly contemporary; and of essays in German and critical papers; analysis of style; reading aloud and recitation.
2. Literature.
- (a) History of German Literature, with critical interpretation of works, mainly modern and contemporary.
- (b) History of Criticism and Social History in their bearing on the interpretation of German literature and the understanding of German life and thought.

Spanish.

The Lecturer is prepared to guide Post-Graduate Students in Spanish Philology and Literature.

The Advocates' Library, Edinburgh, has a specially interesting collection of old and rare Spanish books.

Semitic Languages.

Professor Kennedy, Professor Welch (New College), and Dr Robertson.

I.

Honours Courses in Hebrew and Arabic. (See pp. 174 to 176.)

II.

A Course in Assyrian, by Dr Robertson.

For additional Courses see the programme of the Post-Graduate School of Theology.

Celtic.

1. Middle-Irish Metrics, with illustrations—Professor Watson.
2. Old Irish Grammar: Strachan's *Glosses and Stories from the Táin*—Professor Watson.
3. MS. reading—Professor Watson.
4. Celtic Philology—Professor Watson.

Fine Art.

1. The Greek World in its Artistic Aspects. 25 lectures—Professor Baldwin Brown.
2. The History of Hellenic Sculpture. 25 lectures—Professor Baldwin Brown.

II. Department of Mental Philosophy.

LOGIC AND METAPHYSICS.

PROFESSOR KEMP SMITH.

Ordinary Class—1 to 2.

LOGIC AND PHILOSOPHICAL INTRODUCTION.

This Class meets for Lectures on Tuesdays, Wednesdays, and Thursdays during the teaching part of each Term, besides additional meetings for tutorial instruction.

The course falls into two parts, which are carried on simultaneously throughout the Session.

The first part includes the Elements of Logic, deductive and inductive, giving special attention to the methods of science and the nature of scientific proof. Mellone's *Introductory Textbook of Logic* is used as a textbook, and students preparing for the Class may find it useful to work over the elementary doctrines of Formal Logic to the end of Syllogism (chapters 1, 2, 3, 5, 6).

In the second part of the Course an attempt is made to introduce the student to the chief questions of Philosophy in connection with their historical development, especially in modern times.

The Subjects of Examination in Logic and Metaphysics for the Ordinary Degree of M.A. are as follows:—

For October 1919 and June and October 1920.

The Class Lectures on Logic and Philosophy; Locke's *Essay concerning Human Understanding*, book ii., chapters 1-12 and 23; Fraser's *Selections from Berkeley* (Editor's Introduction to the volume and *The Principles of Human Knowledge*, with Berkeley's own Introduction); Hume's *Enquiry concerning Human Understanding*.

Honours Course.

ADVANCED METAPHYSICS—3 to 4.

This Class, constituting an Honours Course of fifty lectures, meets on Tuesdays, Wednesdays, and Thursdays during the first two terms of the academic year. The Course is largely devoted to the Philosophy of Kant. The earlier lectures deal critically with Locke and Hume as leading up to the Kantian Problem, and the concluding portion of the Course traces the Idealistic development of philosophy in Fichte, Schelling, and Hegel. Students, if they so desire, may take the first half of this Course in the Autumn Term of one session and the second half in the Spring Term of the following session.

The Subjects of Examination in Logic and Metaphysics for the Degree of M.A. with HONOURS IN MENTAL PHILOSOPHY are given on page 191.

ANCIENT PHILOSOPHY.R. P. HARDIE, M.A., *Lecturer.***A. Introductory Course.**

This Course (chiefly in the Summer Term) is intended generally for those who wish to begin the study of Greek Philosophy, and specially to give the elementary knowledge of Greek Philosophy that is necessary for those who think of reading for Honours in Classics or Philosophy. It is divided into two sets of lectures, each consisting of about twenty lectures:—

1. Tues. and Thur., 12 to 1. This set is meant for those who have not taken any Course in Philosophy, and will not assume any knowledge of Philosophy.

Subjects:—Pre-Socratic Philosophy (in some detail), the Sophists, Socrates, and the elements of Plato's Philosophy.

2. Wed. and Fri., 11 to 12. This set is meant for those who have already attended (or are attending) a Course in Philosophy.

Subjects:—Zeno and Pythagoreanism; the relation of Socrates to Pythagoreanism; the Platonic Myth; Plato's Method of Hypotheses; the Megarian Criticism of the Theory of Ideas; Aristotle's Conception of Change.

The two sets of lectures, or either set supplemented by reading corresponding to the other set, will cover period A of Ancient Philosophy as a special subject for Honours in Classics.

B. Honours Half-Course.

This Course (in the Autumn Term) will deal chiefly with Plato's later Metaphysics (*Theatetus* and *Sophist*) and with Aristotle's theory of knowledge and *De Anima*. It will assume a knowledge of Greek Philosophy equivalent to that given in Course A.

C. Honours Half-Course.

This Course (in the Spring Term) will discuss the development of Philosophy after Aristotle, and may include an account of the influence of Aristotle in the Middle Ages. It will assume a knowledge of Greek Philosophy equivalent to that given in Course A. *This Course will not be given unless a sufficient number desire to take it.*

ADVANCED LOGIC.

R. P. HARDIE, M.A., *Lecturer*.

This Course of twenty-five lectures, constituting an Honours Half-Course, is given in the Spring Term. The subject is the chief problems of modern logic, and the Course consists largely of a discussion and criticism of Bosanquet's *Essentials of Logic*, and *Logic or the Morphology of Knowledge*.

The Subjects of Examination in Ancient Philosophy and Advanced Logic for the Degree of M.A. with HONOURS IN MENTAL PHILOSOPHY are given on p. 191; and the Subjects in Ancient Philosophy for HONOURS IN CLASSICS are given on page 152.

MORAL PHILOSOPHY.

PROFESSOR SETH.

Ordinary Course—10 to 11.

This Class meets for lectures on Monday, Wednesday, and Friday during the teaching part of each term. The Class will also meet frequently on Tuesday or Thursday, at the same hour, for discussion and tutorial instruction.

Autumn Term.—Fundamental Ethical Concepts—Ethical Theories:—I. Formalistic: Intuitionism and Transcendentalism.

Spring Term.—II. Teleological: 1. Utilitarianism; 2. Idealism or Eudaemonism.

Summer Term.—Ethical Institutions—the State; its Ethical Basis and Functions.

A special study will be made of Kant's *Fundamental Principles of the Metaphysic of Ethics*; Mill's *Utilitarianism*; Butler's *Sermons on Human Nature*; and Plato's *Republic*, bks. i.-iv.

Course in Social Ethics—10 to 11.HENRY BARKER, M.A., *Lecturer.*

This Class meets for lectures on Monday, Wednesday, and Friday during the teaching part of each term.

The Course will deal with some of the main problems of Social Ethics.

1. Relation of the individual to society—Discussion of different views—Resulting theory of social authority and individual obligation.
2. Society: its ethical structure and working—General Will and its organs or expressions—The modern society and its ethical problems—Ideal of social justice—Action of the State.
3. The Individual Will in its relation to the General Will.
4. Intermediate Social Groups.

The Subjects of Examination in Moral Philosophy for the Ordinary Degree of M.A. are as follows:—

Ordinary Course.

Plato's *Republic*, bks. i.-iv. ; Kant's *Fundamental Principles of the Metaphysic of Ethics* ; Mill's *Utilitarianism* ; and Butler's *Sermons*, i.-iii., xi.

Course in Social Ethics.

Mill's *Liberty and Representative Government* ; Rousseau's *Social Contract* ; Bosanquet's *Philosophical Theory of the State*.

Honours Course—12 to 1.

PROFESSOR SETH.

This Class meets on Monday, Wednesday, and Friday during the Autumn and Spring Terms.

Some of the books prescribed for Honours will be made the basis of study and discussion.

Honours Half-Course—12 to 1.HENRY BARKER, M.A., *Lecturer.*

This Class meets on Monday, Wednesday, and Friday during the Summer Term.

The lectures will deal with some of the books prescribed for Honours. Students reading for Honours in Philosophy are recommended to take this Course along with the Summer Term of the First Ordinary Course.

The Subjects of Examination in Moral Philosophy for the Degree of M.A. with HONOURS IN MENTAL PHILOSOPHY are given on page 191.

PSYCHOLOGY.

JAMES DREVER, M.A., B.Sc., D.Phil., *Lecturer.*

Ordinary Course.

(Monday, Wednesday, and Friday, 12 to 1.)

The Course will deal with the following topics mainly in the order indicated. Reference will be made during the Course to the history of psychological theories and investigations. Meetings for tutorial instruction will be held at the usual Class hour in each term, probably on Tuesdays.

The scope and general methods of Psychology. Its relations to other studies. Theories regarding the connection of mind and body. Outline of the structure and functions of the sense-organs and the nervous system in their relations to mental life.

The fundamental forms of mental process. The various factors of perception. The ideational and intellectual processes, including imagination, memory, conception and judgment. The nature and functions of attention. The simpler and the more complex forms of feeling. Instinct and habit: impulse; desire; voluntary activity. Theories of freedom and determinism. Personality and consciousness of self. The social factor in mental life.

The scope of Individual Psychology. The relations between normal and abnormal states. The principles of Genetic Psychology; the successive stages in childhood and adolescence. The connection of mental development with biological evolution. Outlines of Comparative Psychology. The scope of Social Psychology. The principles of Applied Psychology; methods

employed in the investigation of problems in education, judicial procedure, and other spheres of practical interest.

During the Summer Term, in addition to lectures, which will be continued on Fridays after the first week, the Course will include practical work in the Laboratory illustrating the employment of experimental and statistical methods in psychological investigation. For this purpose, the Class will be divided, after the first week of term, into two or more sections, the first meeting at the Ordinary Class hour on Mondays and Wednesdays, a second meeting from 11 to 12 on the same days ; others as arranged.

The Subjects of Examination in Psychology for the Ordinary Degree of M.A., and for the First (or Diploma) Examination for the Degree in Education, are as follows:—

The Class lectures, together with the work in the practical section of the course: Hobbes's *Leviathan*, part i., chs. 1-8, 11 and 13 ; Berkeley's *Essay towards a New Theory of Vision* ; Ribot's *Psychology of Attention*.

Advanced Course.

(Monday, Wednesday, and Friday, 10 to 11,
Autumn and Spring Terms.)

This Course qualifies for Honours in Mental Philosophy and for the Final Examination for the Degree of Bachelor of Education. The work falls in the main into two sections, which will, as a rule, be carried on concurrently. The theoretical section will deal chiefly with the more abstract and fundamental questions arising in connection with the various branches of Psychology. The experimental section will include lectures and practical work dealing with the more advanced treatment of experimental problems and methods. A certain number of lectures will be devoted to the History of Psychology. The books prescribed for the Honours examination in Philosophy will be studied in the course of the Class work.

Special Medical Course.*

The work of this Class, which is held in the Summer Term, is adapted for those studying in connection with the Diploma in Psychiatry. For syllabus and regulations see under Faculty of Medicine.

Laboratory Course.

(See p. 83.)

The Subjects of Examination in Psychology for the Degree of M.A. with HONOURS IN MENTAL PHILOSOPHY, and for the Final Examination for the DEGREE IN EDUCATION, are given below.

HONOURS EXAMINATION IN MENTAL PHILOSOPHY.

The examination for HONOURS IN MENTAL PHILOSOPHY will consist of the following papers:—

1. Two papers in Metaphysics (three hours each).
2. Two papers in Moral Philosophy (three hours each).
3. Two papers in Advanced Psychology (three hours each).
4. One paper in Advanced Logic (three hours).
5. One paper in Ancient Philosophy (three hours).
6. One Essay paper (three hours).

Candidates taking Advanced Psychology will omit the papers in Advanced Logic and Ancient Philosophy, and *vice versa*.

All candidates must pass an examination in Psychology on the Ordinary Degree standard, to be taken at an earlier period in their course.

Logic and Metaphysics.

For 1920 and 1921.

A general knowledge of the history of Philosophy and of the more advanced doctrines of Logic, as in Bradley's *Principles of Logic* or Bosanquet's larger *Logic*.

A special knowledge of the following books:—Plato, *Sophist*—Aristotle, *De Anima*, bk. i. ch. 1; bk. ii. chs. 1-6, 12; bk. iii. chs. 1-5;—Spinoza, *Ethics*—Hume, *Treatise on Human Nature*, bk. i.—Kant, *Critique of Pure Reason*—Hegel's *Logic*, in Professor Wallace's translation, chs. 1-6.

Moral Philosophy.

For 1920 and 1921.

A general knowledge of the history of Ethical Theory, and a more special knowledge of the following books:—

Plato, *Republic*—Aristotle, *Ethics*—Kant, *Critique of Practical Reason*—Stephen, *Science of Ethics*—Green, *Prolegomena to Ethics* and *Principles of Political Obligation*.

Psychology.

For 1920 and 1921.

An advanced knowledge of general, experimental, and genetic Psychology. Study of the following works, those sections which are of special importance being indicated in the lectures:—Mill, *Analysis of the Phenomena of the Human Mind*—Lotze, *Metaphysic*, Bk. III. (Psychology)—James, *Principles of Psychology*—Kölpe, *Outlines of Psychology*—Baldwin, *Mental Development*—Stout, *Analytic Psychology*.

SCHOLARSHIPS, etc., in the Department of Philosophy, open 1919-20, **Baxter** (Sir D.), p. 279 ; **Baxter** (J. E.), p. 279 ; **Bruce of Grangehill and Falkland**, p. 280 ; **Ferguson**, p. 282 ; **Hamilton**, p. 284 ; **Rhind**, p. 287 ; **Shaw**, p. 288 ; **Skirving**, p. 289 ; **Vans Dunlop** (Logic), p. 292 ; **Vans Dunlop** (Moral Philosophy), p. 293.

BURSARY, Lanfine, p. 309.

POLITICAL ECONOMY.

Ordinary Course.

PROFESSOR NICHOLSON.

The Class meets daily (except Saturday) from 9 to 10 during the Autumn and Spring Terms.

The Course embraces two half-courses qualifying for Graduation in Arts and for Graduation in Law (see under Faculty of Law), and for B.Sc. in Agriculture.

Arrangements are made for tutorial instruction in small groups as part of the regular work of the Class (compulsory).

In connection with the Lectures students are expected to read the Professor's *Elements of Political Economy* and the portions indicated in the Lectures of Mill's *Political Economy*, books i.-iii. ; and of Marshall's *Economics of Industry* ; Smith's *Wealth of Nations*, book iv. ; and the Professor's *Treatise on Money*, 6th edition. For fuller treatment of the subjects of the Lectures students may consult the Professor's *Principles of Political Economy*, books i.-iii.

The first half of the Course (in the Autumn Term) will embrace the subjects corresponding to books i. and ii. of the Professor's *Elements*.

1. SCOPE AND METHODS OF POLITICAL ECONOMY.—Analysis of Fundamental Conceptions, Wealth, Utility, Total and Marginal Utility, Capital, Labour, etc.

2. PRODUCTION OF WEALTH.—Meaning of Production—Agents of Production—Land, Labour and Capital—Efficiency of Labour—Division of Labour—Organisation of Industry—Production on a Large and Small Scale—Accumulation of Capital—Growth of Population—Limits to the Production of National Wealth.

3. DISTRIBUTION OF WEALTH.—Private Property—Socialism—Land Tenures—Wages—Profits—Rents—Combinations of Labour and Capital.

The second half of the Course (in the Spring Term) includes the subjects treated in the *Elements*, books iii.-v., and in the corresponding portions set of Adam Smith and Mill.

4. EXCHANGE.—Theory of Value—Demand and Supply—Cost of Production—Money—Banking Credit—Rate of Interest—Commercial Crises—Foreign Trade—Free Trade—Foreign Exchanges.

5. PRINCIPLES OF GOVERNMENTAL CONTROL AND TAXATION.—An Elementary Treatment of the Leading Principles.

Three written Examinations and One Essay. Essay voluntary.

Elementary Course — Summer Term.

JAMES B. GUILD, M.A., *Lecturer*.

(Tuesdays, Thursdays, and Fridays, 9 to 10 A.M.)

A Course of twenty lectures is given, intended to serve as preparatory for the Ordinary Class, and to provide a general introduction to the subject for non-graduation students. Special tutorial provision is also made for those who take the Class after the Ordinary Class. Students who duly perform the work of the Summer Course are exempted from attendance at the tutorials held during the Autumn Term of the Ordinary Class. Fee £1, 1s. This sum is deducted from the fees of students who subsequently take the Ordinary Class. No fee is payable by students who have already taken the Ordinary Class.

The Class is also open to non-matriculated students on payment of an additional fee of 5s.

In the Summer Term, an Honours Half-Course is held in Statistics and Mathematical Economics, and students are recommended to take this, and also the Courses in Mercantile Law and Palæography, *after* the Ordinary Class of Political Economy. See various Courses.

The Subjects of Examination in Political Economy for the Ordinary Degree of M.A. are as follows:—

The Professor's Lectures and *Elements of Political Economy*; and the portions indicated in the lectures of Mill's *Principles of Political Economy*, books i.-iii.; Marshall's *Economics of Industry* (new edition); Adam Smith's *Wealth of Nations*, book iv.; Professor Nicholson's *Money and Monetary Problems* (6th edition); *The Treatise on Money*.

Honours Course.

(Fifty Lectures, 11 to 12, Mondays, Tuesdays, and Thursdays during the Autumn and Spring Terms.)

The Course will be devoted partly to more difficult Economic Theories and present practical problems not taken up in the ordinary class, and partly to the special treatment of Economic Progress, Economic Functions of Government, and Public Finance.

In connection with the lectures, Marshall's *Principles*, vol. i., the Professor's *Principles*, vol. iii., will, as far as possible, be used as textbooks, and references given to other special works.

The Subjects of Examination in Political Economy for the Degree of M.A. with HONOURS IN ECONOMIC SCIENCE are given on page 199.

ECONOMIC HISTORY.

J. F. REES, M.A., *Lecturer*.

Ordinary Course.

NOTE.—For ordinary Graduation, *Economic History* is in the Department of History and Law (p. 138).

This Course qualifies for graduation, and will consist of seventy-five lectures, to be given on Mondays, Wednesdays, and Fridays, at 5 o'clock, in the Autumn, Spring, and Summer Terms. The Class will also meet occasionally in sections for tutorial instruction, at times fixed to suit the convenience of members.

The Course will embrace the following subjects:—

1. The influence of geography on economic history; The economic factor in ancient history; Economic organisation of primitive peoples.

2. The Roman occupation; The free village community; Tribal organisation as affected by conquest, settlement, and the assimilation of races; The tribal system in Wales; The dependent village; Growth of the manor; Feudalism.

3. The rise of towns; Guilds and the evolution of classes in towns; The mediæval monarchy; Royal finance and the alien capitalist; The influence of the Church.

4. The decay of the manor; Black death and peasants' revolt; The decay of the guilds; Cloth manufactured in the country; Growth of trade; The staple; End of the Middle Ages.

5. National economy of the Tudors; Corn Laws; Enclosures; Encouragement of shipping; Industrial regulation; Poor relief; Mining; Merchant companies; Elizabethan legislation.

6. Stuart mercantilism; Monopolies and State enterprise; Joint-stock in commerce and industry; State regulation; Comparison with French mercantilism; Excise; Banking; Landed interest.

7. The Industrial Revolution; Inventors and captains of industry; Roads and canals; Trade Unions; Laissez-faire; Large farming and inclosures; Colonial policy; Protection; National Debt.

8. World economy; Increase of population; Free trade; Combination laws; Poor law; Factory Acts; Railways; Joint-stock enterprise; Trusts; Economic development of the United States.

Books recommended.—Townsend Warner's *Landmarks of Industrial History*, or H. O. Meredith's *Outlines of Economic History* may be read, together with A. Smith's *Wealth of Nations*, book iii., and Nicholson's *Rents, Profits, and Wages in Agriculture*, as an introduction to the subject. Cunningham's *Growth of English Industry and Commerce* will be used throughout, and portions prescribed for special study. For special periods or subjects, portions of the following:—Seebohm's *Village Community*, chaps. i.-v.; Ashley's *Economic History*, part 2, chaps. i., v., and vi.; and Bogart's *Economic History of the United States*.

The Subjects of Examination in Economic History for the Ordinary Degree of M.A. are as follows:—

The general Economic History of the British Isles from 55 B.C. to the present day, together with that of the United States in the nineteenth century.

Books recommended.—Townsend Warner's *Landmarks of Industrial History*; Cunningham's *Growth of English Industry and Commerce* (portions prescribed in the lectures); Ashley's *Economic History*, pt. ii. chaps. 1, 5, and 6; Nicholson's *Rents, Wages, and Profits in Agriculture*; Adam Smith's *Wealth of Nations*, book iii.; and Bogart's *Economic History of the United States*.

Honours Course.

A full Honours Course of fifty lectures on Economic History for graduation with honours in Economic Science or in History will be given on Mondays, Wednesdays, and Fridays, at 3 o'clock, in the Autumn and Spring Terms. There will be sectional meetings of the class (in addition to the lectures) arranged at intervals for tutorial instruction.

The Course will embrace the following subjects:—

The Credit Economy. The monopoly of the Bank of England. Commercial crises. The National Debt. Reform of taxation. The Budget.

The Industrial Revolution. The Agricultural Revolution. Trade Unions. The economic development of Scotland. The economic history of Ireland.

The growth of the philanthropic spirit. Pauperism and the Poor Laws. Factory legislation. Abolition of slavery.

Trade and trade policy. Mercantilism and the trading companies. The Corn Law and the Navigation Laws. The Free Trade movement. Commercial treaties. The Protectionist reaction.

The old Colonial system. The revolt of the American Colonies. Colonial policy in the nineteenth century. The economic development of Canada. The economic problems of India. The West Indies since the abolition of slavery. The growth of imperial sentiment since 1880.

Books recommended.—Cunningham's *Growth of English Industry and Commerce*; Andreades' *History of the Bank of England*; Conant's *History of the Modern Banks of Issue*; Dowell's *History of Taxation and Taxes*; D'Avenel's *Découvertes d'Histoire Sociale*; Graham's *Social Life in Scotland in the*

Eighteenth Century; Murray's *Commercial Relations between England and Ireland*; Webb's *History of Trade Unionism*; Webb's *English Poor Law Policy*; Fuch's *Trade Policy of Great Britain*; Morison's *Industrial Organisation of an Indian Province*; Morison's *Economic Transition in India*; Dilke's *Problems of Greater Britain*.

The Subjects of Examination in Economic History for the Degree of M.A. with HONOURS IN ECONOMIC SCIENCE are given on page 199; and the Subjects for HONOURS IN HISTORY on page 247.

STATISTICS AND MATHEMATICAL ECONOMICS.

G. A. CARSE, M.A., D.Sc., *Lecturer*.

Wednesday, Thursday, and Friday, 4 to 5, or at times to be arranged. Summer Term. Qualifying as a half-course for Economics Honours.

The Course will comprise twenty-five lectures, and will cover the following :—

STATISTICS.

- Scope and meaning of Statistics.
- Method and application of Statistics.
- Groups and series and their graphic representation.
- Sources of data required in Statistics.
- Averages—the arithmetic average, the weighted average, the geometric mean, the mode, the median.
- Graphic method, curves—periodic, logarithmic, etc.
- Empirical formulas.
- Interpolation.
- Accuracy.
- The law of error and its application.
- Probable errors for independent observations.
- Application of statistical methods to problems of trade, production, population, etc., and to problems in Sociology.
- Elements of the theory of correlation and calculation of the co-efficient of correlation.

Books recommended.—Bowley, *Elements of Statistics*; various memoirs in the Journal of the Royal Statistical Society.

MATHEMATICAL ECONOMICS.

Students are expected to have a working knowledge of Nicholson's *Elements of Political Economy*.

Mathematical treatment, both by geometric and algebraic methods, of questions of utility, demand and supply, production, monopolies, taxation, trade, etc.

References will be given to the treatment of Mathematical Economics by Cournot, Pareto, Edgeworth, Walras, Marshall, and others.

The Subjects of Examination in Statistics and Mathematical Economics for the Degree of M.A. with HONOURS IN ECONOMIC SCIENCE are given on page 200.

POLITICAL SCIENCE	See page 242
GEOGRAPHY (ECONOMIC)	" 224
MERCANTILE LAW	" 238
PALÆOGRAPHY	" 236

The Examination work in these subjects for the Degree of M.A. with HONOURS IN ECONOMIC SCIENCE is given below.

HONOURS EXAMINATION IN ECONOMIC SCIENCE.

Of the following subjects of Examination candidates must take Nos. i., ii., and iii., and one of the subjects under iv.

- i. Political Economy (general and set subjects to be varied from time to time), three papers.
- ii. Economic History (general and set subjects to be varied from time to time), three papers.
- iii. Political Science, one paper.
- iv. (a) Statistics and Mathematical Economics, one paper.
 (b) Geography, Economic (as in syllabus for the Honours Course), one paper.
 (c) Mercantile Law (set subjects), one paper.
 (d) Palæography, one paper.

Questions may be set in any of the papers involving a knowledge of French and German.

Candidates must take British History as one of the ordinary subjects.

Political Economy.*Subjects for 1920 and 1921.*

An advanced knowledge of Economic Theory. Special knowledge of the Economic Functions of Government and Public Finance.

Books recommended.—Nicholson's *Principles of Political Economy*; Marshall's *Principles of Economics*, vol. i. (5th edition); Keynes' *Scope and Method of Political Economy*; Clare's *Foreign Exchanges*; Withers' *Meaning of Money*; S. and B. Webb's *Industrial Democracy*; J. W. Jenks' *The Trust Problem*; Macrosty's *British Trusts*; Adam Smith's *Wealth of Nations*, bk. v.; Sidgwick's *Political Economy*, bk. iii.; Bastable's *Public Finance*; J. S. Mill's *Political Economy*, bk. v.; Seligman's *Income Tax*; R. C. Fay's *Co-operation at Home and Abroad*; List's *National System of Political Economy*; Nicholson's *Project of Empire*; Keynes' *Indian Currency and Finance*; Beveridge's *Unemployment*.

Economic History.*For 1920.*

1. The General Economic History of the British Isles.
2. The Economic History of the British Isles and the Empire (1760-1910).

Books recommended.—Cunningham's *Growth of English Industry and Commerce*; Seebohm's *Village Community*, chaps. i.-v.; Vinogradoff's *Growth of the Manor*; Ashley's *Economic History*, pt. ii.; Unwin's *Industrial Organisation in the 16th and 17th Centuries*; D'Avenel's *Découvertes d'Histoire Sociale*; Leonard's *Early History of English Poor Relief*; Webb's *English Poor Law Policy*; Webb's *History of Trade Unionism*; Hutchins and Harrison's *History of Factory Legislation*; Nicholson's *History of the English Corn Laws*; Morison's *Industrial Organisation of an Indian Province*; Conant's *History of Modern Banks of Issue*; Ashley's *Surveys, Historic and Economic*; Fuchs' *Trade Policy of Great Britain*.

For 1921.

1. The General Economic History of the British Isles.
2. The Economic History of the British Isles during the sixteenth and seventeenth centuries.

Books recommended.—Cunningham's *Growth of English Industry and Commerce*; Seebohm's *Village Community*, chaps. i.-v.; Vinogradoff's *Growth of the Manor*; Ashley's *Economic History*, pt. ii.; D'Avenel's *Découvertes d'Histoire Sociale*; Leonard's *Early History of English Poor Relief*; Unwin's *Industrial Organisation in the 16th and 17th Centuries*; Pryce's *English Patent of Monopoly*; Kennedy's *English Taxation*; Scott's *Constitution and Finance of English Joint Stock Companies*, vol. 1; Keith's *Commercial Relations of England and Scotland*; Tawney's *Agrarian Problem in the 16th Century*; Gonner's *Common Land and Inclosure*. The following contemporary economic tracts are also prescribed to be studied in detail:—*The Commonwealth of this Realm of England* (ed. Lamond); Thomas Mun's *England's Treasure by Foreign Trade*; Sir William Petty's *Discourse on Political Arithmetic*, and *Political Anatomy of Ireland*; Sir Josiah Child's *The New Discourse of Trade*.

COURSES IN FACULTY OF ARTS

Political Science.

(Same as for Honours in History.)

Statistics and Mathematical Economics.Subjects of the lectures, and Bowley's *Elements of Statistics*, part i.**Geography.**

The following parts of the Lecturer's *Handbook of Commercial Geography*, latest edition:—The Introductions; the section on the General Facts relating to the Production, Distribution, and Exchange of Commodities; the sections on the Principal Commodities, and pp. 213 to the end; and also on chaps. i. and xvii. of Part I. and the whole of Part II. of Russell Smith's *Industrial and Commercial Geography*.

Mercantile Law.

Candidates will be examined on the subjects dealt with in the Lectures; also on Mitchell on the *History of the Law Merchant*.

Palæography.

(For subjects, see under Courses.)

SCHOLARSHIP open in the Department of Economics, Vans Dunlop, p. 291.

BURSARY, Lanfine, p. 309.

THEORY AND HISTORY OF EDUCATION.

PROFESSOR DARROCH and D. KENNEDY-FRASER, M.A., B.Sc.,
Lecturer.

Ordinary (or First) Course.

The Class meets daily from 9 to 10 A.M. during the Autumn and Spring Terms. Two of the Class hours per week will be devoted to tutorial work, which is obligatory on all students.

During the Summer Term the Class meets on Mondays, Wednesdays, and Fridays, from 9 to 10 A.M.

The work of the Course will embrace a study of the principles underlying modern Educational theory and practice. During the Autumn Term the lectures will be mainly devoted to a study of the various theories of the end and method of Moral Education.

In the Spring Term, the work of the Class will be chiefly concerned with the discussion of the principles underlying Intellectual Education. In the Summer Term, the lectures will embrace a study of the Educational principles of the chief writers from the time of Rousseau to the present time

For the first part of the Course, students require to read M'Dougall's *Social Psychology* and Herbert Spencer's chapter on *Moral Education*. For the second part of the Course:—Dewey's *How We Think*, and Bagley's *The Educative Process*. For the third part, either Quick's *Essays on Educational Reformers* or Monroe's *Brief Course in the History of Education*.

The Subjects of Examination in Education for the Ordinary Degree of M.A., and for the First (or Diploma) Examination for the Degree in Education, are as follows:—

Theory.—Subjects of examination: Lectures of the Professor; Rousseau's *Emile*, books i.-iii.; Herbert Spencer on *Moral Education*; Dewey's *How We Think*.

For the Theory of Education, students may, in addition to the lectures of the Professor, consult Bagley's *The Educative Process* and Miller's *Psychology of Thinking*.

History.—A general knowledge of the History of Education from Rousseau to the present day, with a more particular knowledge of the writings of Rousseau, Fröbel, and Pestalozzi.

Advanced Course.

A Course of fifty lectures will be given in this subject. The Class will meet on Mondays, Wednesdays, and Fridays during the Autumn and Spring Terms at 11 A.M.

Ten lectures will be given on Greek and Roman Systems and Theories of Education. The remaining part of the Course will deal with the development of Educational Theory in Western Europe from the end of the 17th century down to the present. Particular attention will be paid to the parallel development of Education in Germany and in Britain during the 19th century. The doctrines of the following writers will be studied: Rousseau, Kant, Fichte, Hegel, Froebel, and Herbart; also

those of Bentham, James Mill, J. S. Mill, Herbert Spencer, and Cardinal Newman.

Books recommended.—Plato's *Republic*, book ii. 366 to end of book iv. and book vii.; Aristotle's *Ethics and Politics* (Selections as given in Professor Burnet's *Aristotle on Education*); Quintilian's *Institutes of Oratory*, books i., ii., xi., and xii.; Rousseau's *Emile*; Froebel's *The Education of Man* (I. E. Series); Herbart's *Science of Education* (Felkin's translation); Herbert Spencer's *Education*.

Modern Educational Systems and Problems.

D. KENNEDY-FRASER, M.A., B.Sc., *Lecturer*.

This Class meets three times a week during the Summer Term, on Mondays, Wednesdays, and Fridays, from 10 to 11. The Course, which is partly a Seminar Course, consists of lectures and discussions on the secondary school systems of Scotland, England, France, Germany, and America, and is based on the Board of Education *Special Reports*, and Sandiford's *Comparative Education*, or other similar work.

The following Courses, which qualify for the Final Examination for the Degree of Bachelor of Education, are carried on at the EDINBURGH PROVINCIAL TRAINING COLLEGE, MORAY HOUSE.

Advanced Course in Experimental Education.

D. KENNEDY-FRASER, M.A., B.Sc.

A Course of fifty lectures (including demonstration and practical work) will be given on this subject. The Class will meet on Mondays, Wednesdays, and Fridays, at 2 p.m., during the Spring and Summer Terms. (This Advanced Course, which consists of lectures and practical work, will be normally preceded by an Elementary Course, also theoretical and practical, in which the general lines of experimental investigation in Education are studied, and the student introduced to typical methods and experiments.)

The lectures will be devoted to a discussion of the more difficult and complex problems of Experimental Education, and the scientific treatment of these problems, and will cover as many as possible of the following topics :—

1. Individual Differences. Units and scales of measurement. Measurement of relations. Study of the influence of race, sex, environment, etc. Theory of types.

2. Mental and pedagogical tests of development, endowment, and attainment. Standardisation of tests.

3. Learning. Kinds of learning. Methods of learning, and distribution of learning periods. Conditions, amount, rate, limits of improvement by practice. Permanence of improvement. Cross education. Problems of mental discipline.

4. Work and Fatigue. The "work curve." Special and general fatigue. Theories of mental work and fatigue. Hygiene of mental work.

5. The School Subjects. Analytical study of language, reading, writing, arithmetic, drawing, etc. Application of results.

6. School Methods. Experiments in the teaching of language, reading, spelling, composition, arithmetic, drawing, etc.

7. Wider Aspects of Education. Methods of experimental investigation.

The practical work will consist of typical experiments, illustrative of the methods of studying individual differences, learning, etc., the employment and evaluation of mental and pedagogical tests, the use of the tachistoscope and the chronoscope in the investigation of processes involved in school work, the analytical study of reading, spelling, writing, arithmetic, etc. The student will also get instruction and practice in group and class experiments, as in testing for fatigue, or comparing teaching methods.

Each student will also be required to carry out at least one investigation of a research nature, either on an assigned problem or on a problem chosen by himself and approved by the lecturer.

The Fee for the Course for students, other than those graduating in Education, is £4, 4s.

Administration and Organisation of Primary and Secondary Schools.

ALEXANDER MORGAN, M.A., D.Sc.

A Course of twenty-five lectures (with additional hours visiting typical schools) will be given on this subject. The Class will meet at hours to be arranged on three days per week during the SUMMER term. The work of the Course will embrace a study of—

I. *The External Organisation of Education.*—Development of Primary and Secondary Education in Scotland from pre-Reformation times till the present day. Pre-Reformation Parish and Burgh Schools. Effects of the intellectual movement that accompanied the Reformation. Educational aims of Knox and other Reformers. The national system of Education outlined in the *First Book of Discipline*. Its influence on the course of Scottish Education. The Parish School, Burgh School, and Academy. Condition of Primary and Secondary Education prior to Education (Scotland) Act, 1872. Effects of Act on Primary and Secondary Education. Defects of Act amended by later Acts. Reform of educational endowments. Scotch Education Department formed. Inspection and examination of Secondary Schools. Leaving Certificate instituted. Free Elementary Education. Residue and equivalent Grants. Secondary Education. Committees. Abolition of Science and Art Department. Condition of Primary and Secondary Education prior to Education (Scotland) Act, 1908. Effects of Act on all grades of Education.

II. *The Internal Organisation of Schools.*—Classification of pupils, and number and size of classes. Duties of Head Teacher and other teachers. Form-Masters *versus* Specialists. Classification of the materials of education, and their organisation into curricula. Types of curricula. Curricula for girls. The Timetable. Organisation of social life in Secondary Schools.

III. *The National Organisation of Education.*—Classification of Schools. Functions of each type. Relation of Primary to Secondary Education, and of Secondary to Higher Education.

The Fee for the Course for students, other than those graduating in Education, is £2, 2s.

POST-GRADUATE COURSES IN THE DEPARTMENT OF MENTAL PHILOSOPHY.

The Courses detailed below may be classified as follows :—

I. Existing Courses, which are available for Post-Graduate Students: such students being expected to supplement these Courses by reading and research, under the direction of the Professors or Lecturers.

II. Special Courses for Post-Graduate Students, to be provided if a sufficient number of Candidates make application, and if the University Court approves of the proposed arrangements.

Graduates of this or other Universities who contemplate Post-Graduate Research should communicate with the Dean of the Faculty of Arts.

Logic, Metaphysics, and History of Philosophy.

I.

- Logic—Mr Hardie. 25 lectures. (See p. 187.)
 Kant's Critique of Pure Reason—Professor Kemp Smith. 15 lectures. (See p. 185.)
 Kant's Critique of Judgment—Professor Kemp Smith. 10 lectures. (See p. 185.)
 Fundamental Problems of Philosophy—Professor Kemp Smith. 25 lectures. (See p. 185.)
 Plato's Earlier Metaphysic—Mr Hardie. 15 lectures. (See p. 186.)
 Plato's Later Metaphysic—Mr Hardie. 15 lectures. (See p. 186.)
 Aristotle's *De Anima*—Mr Hardie. 15 lectures. (See p. 186.)

II.

- Aristotle's Logic—Mr Hardie. 15 lectures.
 Aristotle's Physics and Metaphysics—Mr Hardie. 20 lectures.
 Fundamental Questions in Psychological Analysis—Mr Barker. 20 lectures.

Ethics (Moral Philosophy).

I.

- Aristotle's Ethics—Professor Seth. 25 lectures. (See p. 188.)
 Ethics of Kant and Green—Mr Barker. 25 lectures. (See p. 188.)
 Theory of Society and the State—Mr Barker. Three terms. (See p. 188.)

II.

- Plato's Ethics—Professor Seth. 20 lectures.
 Aristotle's Politics—Mr Barker. 15 lectures.
 Spinoza's Ethics. 15 lectures.
 Recent Ethical Theories—Mr Barker. 10 lectures.

Psychology, General and Experimental.

- History of Modern Psychology—Dr Drever. 20 lectures. (See p. 190.)
 Experimental Psychology—Dr Drever. (See p. 190.)
 Psychological Research in Laboratory—Dr Drever. (See p. 190.)

Education.

Professor Darroch and Mr Kennedy-Fraser.

I.

- Modern Educational Problems and Systems. 25 lectures. Summer Term.
 (See p. 202.)
 Experimental Education. By arrangement with the Edinburgh Provincial
 Committee for the Training of Teachers. Spring and Summer Terms.
 (See p. 202.)

II.

- The Influence of Philosophy on the Aims and Methods of Education. 25
 lectures. Autumn Term.
 The Development of Educational Thought in Germany and in Great
 Britain during the nineteenth century: a contrast and a comparison.

Department of Economics and Commerce.

- Honours Course in Economics. Advanced Theory and Practical Problems
 —Professor Nicholson. (See p. 194.)
 Statistics and Mathematical Economics—Dr Carse. (See p. 197.)
 Economic Geography (Advanced)—Mr Chisholm. (See p. 225.)
 Economic History (Advanced)—Mr Rees. (See p. 196.)
 Accounting and Business Method—Professor Laird.
 Organisation of Commerce and Industry—
 Banking—Mr M'Neil. (See p. 272.)
 Mercantile Law—Mr Aitken. (See p. 238.)
 Industrial Law—Mr Aitken. (See p. 271.)

III. Department of Science.

MATHEMATICS.

E. T. WHITTAKER, M.A., Sc.D., F.R.S., Professor of Mathematics;
 CHARLES TWEEDIE, M.A., B.Sc., DAVID GIBB, M.A., B.Sc.,
 RAYMOND W. BRINK, M.A., Ph.D., and GLENNY SMEAL,
 B.Sc., Lecturers in Mathematics; E. M. HORSBURGH, M.A.,
 D.Sc., Assoc.M.Inst.C.E., Lecturer in Technical Mathe-
 matics; A. E. SPRAGUE, M.A., D.Sc., P.F.A., F.I.A.,
 Lecturer in Actuarial Science

(a) First Ordinary Course.

PROFESSOR WHITTAKER and LECTURERS.

The Class meets daily from 9 to 10 during the Autumn and Spring Terms. Two of the Class hours per week will generally be devoted to Tutorial work, which is obligatory on all members of the Class.

During the Summer Term the Class meets on Mondays, Wednesdays, and Fridays, from 9 to 10.

The work of the whole Course embraces Geometry, Euclidian Projective and Descriptive; Algebra; Trigonometry; Elements of Co-ordinate Geometry, Graph Tracing, and Calculus, with lectures on the History and Philosophy of Mathematics.

(b) Second Ordinary Course.

PROFESSOR WHITTAKER and LECTURERS.

This Class meets from 12 to 1 daily during the Autumn and Spring Terms, and from 12 to 1 on Mondays, Wednesdays, and Fridays during the Summer Term. Tutorial work as in the First Ordinary Course.

This Course is usually taken by candidates for the Honours M.A. in Mathematics in their *first* year, and by candidates for the Ordinary M.A. in the *second* year of their study of the subject. The work of the Course embraces Algebra, Interpolation, and Differential and Integral Calculus in the Autumn and Spring Terms, and Spherical Trigonometry and Analytical Geometry in the Summer Term.

(c) **Supplemental Summer Course in Map-Projections.**

PROFESSOR WHITTAKER and LECTURERS.

This Course, which consists of lectures and laboratory work in Map-Projections, is given on Tuesdays and Thursdays in the Summer Term from 4 to 5 or 6. Students in the Mathematical Department who intend to become candidates for the Diploma in Geography may obtain permission from the Professor to take this course instead of the Third Term of the First or Second Ordinary Course; in such cases no additional fee will be charged. In other cases the fee is £2, 2s.

(d) **First Technical Course.**

DR HORSBURGH.

This Class meets daily from 9 to 10 during the Autumn and Spring Terms. Two of the Class hours per week will generally be devoted to Tutorial work, which is obligatory on all members of the Class.

During the Summer Term the Class meets on Mondays, Wednesdays, and Fridays from 9 to 10.

The work of the whole Course embraces:—Elementary Algebra, Trigonometry (with special reference to Surveying), Elementary Co-ordinate Geometry and Graph Tracing, Use of Graphic Methods, an Introduction to the Differential and Integral Calculus, Simple Practical Applications of these subjects, chiefly from the Engineer's point of view.

(e) **Second Technical Course.**

DR HORSBURGH.

This Class meets daily from 11 to 12 during the Autumn and Spring Terms.

The work of the Course embraces:—Use of Graphic Methods, Spherical Trigonometry (with reference to Geodesy and Navigation), Elementary Co-ordinate Geometry, Differential and Integral Calculus, Simple Differential Equations, Practical Applications of these subjects, chiefly from the Engineer's point of view.

(f) First Actuarial Course.

Candidates for the Diploma in Actuarial Mathematics in their first year attend the Second Ordinary Course during the Autumn and Spring Terms; during the Summer Term they attend a Course on Interest, Annuities-certain, the Mortality Table, Probabilities of Life and Survivorship, which is delivered by the University Lecturer in Actuarial Science.

(g) Intermediate Honours Course.

PROFESSOR WHITTAKER and LECTURERS.

The Class meets from 11 to 12 daily during the Autumn and Spring Terms, and from 11 to 12 on Mondays, Wednesdays, and Fridays during the Summer Term.

The Course embraces Higher Algebra, Theory of Probability, Calculus of Differences, Differential and Integral Calculus, and Differential Equations in the Autumn and Spring Terms; and Solid Geometry and Descriptive Geometry in the Summer Term.

(h) Second Actuarial Course.

Candidates for the Diploma in Actuarial Mathematics in their second year attend the Intermediate Honours Course during the Autumn and Spring Terms; during the Summer Term they attend a course on the Theory of Life Contingencies, which is delivered by the University Lecturer in Actuarial Science.

(i) Advanced Honours Course.

PROFESSOR WHITTAKER and LECTURERS.

The Class meets from 10 to 11 daily during the Autumn and Spring Terms.

The Course is devoted to the Higher Mathematical Analysis, both practical (in the Mathematical Laboratory) and theoretical; including Theory of Series, Construction and Use of Mathematical Tables, Definite Integrals, Differential Equations, Fourier's Analysis, Harmonic Analysis, Elliptic Functions, General Theory of Functions, and Solid Geometry. Special attention is given to those parts of the subject which are of frequent application in Natural Philosophy.

(f) **Additional Summer Course for the
Final Honours Examination.**

PROFESSOR WHITTAKER AND LECTURERS.

The Class meets during the Summer Term from 11 to 12 on Mondays, Wednesdays, and Fridays. The subject, which is varied from year to year, is chosen from those comprised in Papers I. to IV. of the Final Honours Examination.

(k) **Post-Graduate and Research Lectures.**

The Professor lectures to the Research Students and Post-graduate workers on current developments in Mathematical Science. The principal aim of the lectures is to bring into prominence topics suitable for original investigation. The hours of lecture are arranged at the beginning of the session.

Double Course for the Ordinary Degree of M.A.

The following combinations of the above Courses are recognised as constituting a *Double Course* in Mathematics for the Ordinary Degree of M.A., the Courses to be taken in the order in which they are named.

- I (a) and (b).
- II. (d) and (e).
- III. (b) and (g).

Students who intend to proceed to Honours in Mathematics and Natural Philosophy are recommended to take Course (b) in their first year, or—if their previous reading in Mathematics has not included the subject-matter of Course (a)—to take Courses (a) and (b) together in their first year. They can then proceed to Course (g) in their second year.

Textbooks.

The Students' Reading Room in the Mathematical Institute of the University, 16 Chambers Street, contains a collection of textbooks on all branches of Mathematics. Students are desired to consult the Professor or Lecturers regarding the textbooks suitable for their own reading.

The Research Room in the Mathematical Institute contains an extensive Library of Mathematical periodicals and advanced works on Mathematics.

The Subjects of Examination in Mathematics for the Ordinary Degree of M.A. are as follows :—

For subjects see under Courses (above).

Candidates will be examined on the subjects of the Courses which they have taken, viz. :—

Course.	Examination.
(a) Examination for Ordinary Degree, First Course.	
(b) Do. do. Second do.	
(d) Examination in Mathematics for Engineering, First Paper.	
(e) Do. do. Second do.	
(g) The Second and Third Papers in the Intermediate Honours Examination.	

Students who attain, in the terminal class examinations, a certain standard which is determined by the Professor of Mathematics and the Additional Examiner with the approval of the Senatus and University Court, are exempted from the examination in Mathematics for the Ordinary Degree of M.A. At present the standard in question is the standard for a second class certificate.

The Subjects of Examination in Mathematics for the Degree of M.A. with HONOURS IN MATHEMATICS AND NATURAL PHILOSOPHY are given on page 216.

APPLIED MATHEMATICS.

C. G. KNOTT, D.Sc., LL.D., *Lecturer.*

Intermediate Honours Course in Applied Mathematics.

DR KNOTT.

Autumn, Spring, and Summer Terms. Mondays, Wednesdays, and Fridays, 12 to 1 o'clock. Qualifies for M.A. Honours, or as part of a Double Course in Natural Philosophy for the Ordinary M.A. Degree.

The lectures treat of the less advanced portions of the Dynamics (Kinetics and Statics) of Particles, Rigid Bodies, and Flexible Strings, with the theory of the Potential.

A knowledge of the Calculus is assumed.

Final Honours Courses in Applied Mathematics.

DR KNOTT.

- (1) *Hydrodynamics and Elasticity*.—Autumn Term. Three hours per week. 11 to 12 o'clock.
- (2) *Waves in Matter and Ether*.—Spring Term. Three hours per week. 11 to 12 o'clock.
- (3) *Kinetic Theory of Gases and Radiation*.—Summer Term. Three hours per week. 11 to 12 o'clock.
- (4) *Quaternions in their Physical Applications*.—Summer Term. Mondays, Wednesdays, and Fridays, at 9 o'clock. Qualifying as a Half-Course for M.A. Honours.

In this Course of lectures on the Physical Applications of Quaternion or Vector Analysis, special attention is given to modern electro-magnetic theory. After a short mathematical introduction, the relations existing among electric and magnetic vectors will be developed and illustrated vectorially. Students proposing to take the Course should read beforehand chapters i. to v. of Kelland and Tait's *Introduction to Quaternions* (third edition), or chapters i. to iii. of Tait's *Quaternions*.

The Subjects of Examination in Applied Mathematics for the Degree of M.A. with HONOURS IN MATHEMATICS AND NATURAL PHILOSOPHY are given on p. 216

NATURAL PHILOSOPHY.

C. G. BARKLA, M.A., D.Sc., F.R.S., Nobel Laureate,
Professor of Natural Philosophy.

G. A. CARSE, M.A., D.Sc., and H. S. ALLEN, M.A., D.Sc.,
Lecturers in Natural Philosophy.

J. MILNE, D.Sc., *Lecturer in Physical Optics.*

Ordinary Natural Philosophy Class.

Autumn, Spring, and Summer Terms. Daily, 11 to 12 o'clock. Qualifying as a full Course for the M.A. degree (see below for Double Course).

The work of the Class is conducted by means of lectures, practical laboratory exercises, and tutorial instruction.

The *Lecture Course* includes :—Elementary Dynamics of Solids and Liquids, Properties of Matter, Electricity and Magnetism, Heat, Light, and Sound.

(The Class will be divided into two sections during the Autumn and Spring Terms, to enable those with previous knowledge of the subjects of Dynamics, Electricity, and Heat to attend lectures on more advanced portions of the subjects. In the award of Certificates of Merit, the Upper and Lower Divisions of the Class are regarded as distinct Classes.)

LECTURES.—Autumn, Spring, and Summer Terms. Mondays, Wednesdays, and Fridays, 11 to 12, by the Professor and Lecturers.

The *Junior Practical Physics Course* of 50 hours must be attended by all students of the Natural Philosophy Class. Times to be arranged.

Courses of *Tutorial Instruction* are conducted in connection with the Lecture Courses. The Tutorial Classes meet from 11 to 12 on days not occupied by lectures. Students may attend two tutorial meetings per week.

A Certificate of Merit in this Course exempts from the Degree Examination. The standard required is determined by the Professor and the Additional Examiner acting together.

**Double Course in Natural Philosophy for Ordinary
M.A. Degree.**

The following combination of Courses is recognised as constituting a Double Course in Natural Philosophy :—

Ordinary Natural Philosophy, followed by two of the Intermediate Honours Courses in Applied Mathematics, Heat, and Electricity. (The standard required will be lower than that for Intermediate Honours.)

For Subjects of Examination in Natural Philosophy for the Ordinary Degree of M.A., see Courses above.

*Intermediate Honours Courses.**Intermediate Honours Course in General Physics.*

Autumn Term. Mondays, Wednesdays, and Fridays, 9 to 10 o'clock.

Intermediate Honours Course in Heat.

Spring Term. Mondays, Wednesdays, and Fridays, 9 to 10 o'clock. Qualifying as a half-course for M.A. Honours, and for M.A. Double Course (see p. 138).

The work of the Class consists of a Course of lectures on Heat, including Thermodynamics.

Intermediate Honours Course in Electricity.

Summer Term. Mondays, Wednesdays, and Fridays, 9 to 10 o'clock. Qualifying as a half-course for M.A. Honours, and, under conditions specified on p. 138, as part of a Double Course for M.A.

The Class work consists of lectures on Electricity and Magnetism, including some of the later developments of the conduction of electricity through gases, and of the phenomena of radio-activity.

Intermediate Honours Course in Optics.

Autumn and Spring Terms. Tuesdays and Thursdays, 9 to 10 o'clock, during a Term and a half.

Intermediate Honours Course in Practical Physics.

Intermediate Honours Students are recommended to take a course of Senior Practical Physics, covering 100 hours' work in the Laboratory. Times to be arranged.

*Final Honours Courses.**Final Honours Courses in Electricity.*

(1) Autumn Term. Mondays, Wednesdays, and Fridays, 12 to 1 o'clock.

(2) Spring Term. Tuesdays and Thursdays, 11 to 12 o'clock. Qualifying as two half-courses for M.A. Honours.

(3) Summer Term. Mondays, Wednesdays, and Fridays, 12 to 1 o'clock.

Final Honours Course in Heat (Thermodynamics).

Autumn and Spring Terms. Tuesdays and Thursdays, 12 to 1 o'clock.

Final Honours Course in Physical Optics.

Spring and Summer Terms. Tuesdays and Thursdays, 12 to 1 o'clock. Qualifying as a half-course for M.A. Honours.

The Course consists of at least 25 lectures, with optional meetings of the Class for demonstrations.

Final Honours Course in Advanced General Physics.

Summer Term. Mondays, Wednesdays, and Fridays, 10 to 11 o'clock. Qualifying as a half-course for M.A. Honours.

Final Honours Course in Practical Physics.

Final Honours Students are recommended to take a Course of Advanced Practical Physics, covering 100 hours' work in the laboratory. Times to be arranged.

The Subjects of Examination in Natural Philosophy for the Degree of M.A. with HONOURS IN MATHEMATICS AND NATURAL PHILOSOPHY are given below.

**HONOURS EXAMINATION IN MATHEMATICS
AND NATURAL PHILOSOPHY.**

The Honours Examination in this group is divided into two parts, the Intermediate Honours Examination and the Final Honours Examination, which may or may not be taken at the same time.

All the subjects of the Intermediate Examination are obligatory on every candidate for Honours, but in the Final Examination a certain amount of selection and specialisation is allowed.

INTERMEDIATE HONOURS EXAMINATION.

Admission.—Any student may enter for the Intermediate Honours Examination not earlier than the end of his second Academic year.

Subjects.—The subjects of the examination correspond generally to the subjects of the courses in Mathematics and Natural Philosophy, up to and including the Intermediate Honours Classes, that is to say—

I. In Pure Mathematics.

Three papers will be set—

1. A paper on Algebra and Trigonometry, Plane and Spherical.
2. A paper on Geometry, Synthetic, Projective, Descriptive, and Analytical.
3. A paper on Differential and Integral Calculus, and Elementary Differential Equations.

In 1920 and subsequent years the Intermediate Honours Examination in Mathematics will be held shortly before the beginning of the Autumn Term. Candidates may, however, secure exemption by obtaining a Certificate of Merit in June on the year's work in class.

II. In Natural Philosophy, including Applied Mathematics.

Three papers will be set, one in each of the following subjects :—

1. Analytical Dynamics.
2. Heat.
3. Electricity.

Pass in the Intermediate Honours Examination.

A student who has taken the Intermediate Honours Examination separately and satisfied the Examiners may take his Final Honours Examination separately in a succeeding year; if he has failed in his Intermediate Honours Examination, he must take this examination again, either separately or along with his Final Honours Examination.

FINAL HONOURS EXAMINATION.

Admission.—A student who has completed the attendances required in Section XI. (4) of the Arts Ordinance (p. 133), and passed in the two ordinary subjects required by this Ordinance and by the Additional Regulations, may enter for his Final Examination.

Subjects.—The papers in this examination will be as follows :—

I. In Pure Mathematics

1. A paper on the more advanced parts of Algebra (including Theory of Equations, Determinants, Invariants) and Trigonometry, Plane and Spherical.
2. A paper on Geometry (Projective, Analytical, and Differential).
3. A paper on Differential and Integral Calculus, including the Theory of Limits and Sets of Points, and the Convergence of Infinite Processes.

4. A paper on Differential Equations, Higher Analysis, and Theory of Functions of a complex variable.
5. An examination in Practical Mathematics (held in the Mathematical Laboratory). All candidates must take (5).

II. In Natural Philosophy, including Applied Mathematics.

A paper on each of the following subjects :—

1. Advanced Dynamics (including Hydrodynamics and Elasticity).
2. Waves in Matter and *Æther*.
3. Kinetic Theory of Gases and Radiation.
4. Quaternions and its Physical Applications.
5. Advanced General Physics.
6. Physical Optics.
7. Electricity I.
8. Electricity II.

A candidate must take six papers in all, with a minimum of two from each of the Departments I. and II. These must include paper 7 in Natural Philosophy. If a candidate takes only two papers in Natural Philosophy, one of these must be 1.

In both Mathematics and Natural Philosophy, properly authenticated records of laboratory work or original research may be submitted by the candidate to the Examiners as additional evidence of proficiency, and if submitted will be taken into consideration.

SCHOLARSHIPS, etc., in the Department of Mathematics and Natural Philosophy, open 1919-20 — **Arnott** (Neil), p. 278; **Baxter** (Sir D.), p. 278; **Baxter** (John Edward), p. 279; **Bruce of Grangehill and Falkland**, p. 281; **Drummond**, p. 282; **Ferguson**, p. 282; **Maclaren**, p. 285; **Nichol**, p. 286; **Vans Dunlop** (Mathematics), p. 297; **Vans Dunlop** (Natural Philosophy), p. 297.

BURSARIES, **Fraser** (Donald), p. 304; **Lanfine**, p. 309; **Newton**, p. 315.

• ASTRONOMY.

PROFESSOR SAMPSON.

The Course is the same as the Intermediate Course in the Faculty of Science, and consists of sixty lectures, and, on different days, twenty meetings of two hours each for Observatory work.

The lectures are delivered at the University on Tuesday, Wednesday, and Thursday, at 3 P.M., and the Class meets on

Friday at the Royal Observatory, Blackford Hill, from 5 to 7 P.M., for practical exercises.

The lectures will cover General Astronomy. Each question will be treated first descriptively in its historical setting; the development of ideas will be followed with more or less detail till it leads to the present position and approximate or exact calculation. The problems will include those of determining the true relations to one another of earth, sun, moon, and planets, and the stellar system; terrestrial questions, as refraction, the earth's figure, parallax, determination of time and place; the tides; Kepler's laws and their interpretation; solution of Kepler's problem; determination of the elements of the sun's apparent orbit; elements of the lunar and planetary orbits and orbits of comets; luni-solar cycles; the calendar; eclipses; the stellar system, precession and nutation, stellar parallax, aberration, proper motion. The dynamical aspect of certain of these questions will also be dealt with. Students will require a fair knowledge of Spherical Geometry, and of the elements of the Calculus.

The Class exercises will include a considerable proportion of numerical calculation, and will deal with the use of the *Nautical Almanac*.

The practical work will be designed, as far as possible, to show how the measures necessary for theory are actually realised with increasing accuracy. It will cover visual knowledge of the stars, use of star maps and globes, naked-eye observations of the moon's path; means of estimating intervals of time and angle; construction and use of clock, sextant, theodolite, transit circle, and equatorial; determination of sidereal and solar time, latitude, and the co-ordinates of a star.

The Subjects of Examination in Astronomy for the Ordinary Degree of M.A. are as follows:—

The class lectures, and those parts of Berry's *History of Astronomy*, Young's *General Astronomy*, and Ball's *Spherical Astronomy* that deal with the same subject-matter. Elementary Astrodynamics. Practical exercises.

CHEMISTRY.**First Lecture Course.**

DR DOBBIN and PROFESSOR WALKER.

The Class meets on Mondays, Wednesdays, and Fridays from 10 to 11, during the three Terms. For Tutorial work, which is obligatory, the Class may be divided into two sections, which will meet on Tuesdays or Thursdays.

The lectures are mainly devoted to Elementary Inorganic Chemistry, embracing the more important metallic and non-metallic elements and their chief compounds, together with an introduction to Chemical Theory. Fee, £4, 4s.

First Laboratory Course.

This Course must be taken in conjunction with the First Lecture Course. It meets for two hours twice a week during three terms. The work will include simple inorganic preparations, the detection of the chief inorganic elements and compounds, and an introduction to Volumetric and Gravimetric Analysis. Fee, £4, 4s.

Second Lecture Course.

PROFESSOR WALKER and LECTURERS.

The Class will meet on Mondays, Tuesdays, and Wednesdays during all three Terms, from 10 to 11. In the Autumn Term Advanced Inorganic Chemistry, Chemical Theory, and Elementary Physical Chemistry will be taken up. In the Spring and Summer Terms the work will be devoted chiefly to Organic Chemistry. Fee, £4, 4s.

Second Laboratory Course.

During two Terms, 120 hours must be given to Laboratory work, which will include qualitative analysis, the preparation of a few typical inorganic and organic substances, the testing of organic substances, and simple quantitative estimations. Fee, £4, 4s.

The Subjects of Examination in Chemistry for the Ordinary Degree of M.A. are as follows :—

The candidates will be examined by papers and in the laboratory on the subjects of the courses which they have taken. (See above.)

NOTE.—The examinations for the First Course will be held in June and October. The examinations for the Second Course will be held in June and December.

ZOOLOGY.

First Course.

PROFESSOR EWART and PROFESSOR ASHWORTH.

- (a) Autumn Term.—Lectures and Practical Work—Vertebrata.
- (b) Spring Term.—Lectures and Practical Work—Invertebrata.
- (c) Summer Term.—Lectures and Laboratory Work on the Morphology of the Invertebrata.

NOTE.—Instead of taking Morphology of the Invertebrata during the Summer Term, Students may take Cytology and Embryology in the following Winter.

Second Course.

First Term.—Cytology and General Embryology. } Dr J. Beard.
Second Term.—Embryology of Organs.

Third Term.—Invertebrate Zoology (Second Course Fee as before) completing a full course on the Invertebrata. Professor Ashworth.

The Subjects of Examination in Zoology for the Ordinary Degree of M.A. are as follows :—

- (a) The General Principles of Biology.
- (b) The structure, habits, and life-history of Amoeba, Paramaecium, Euglena, Monocystis, the Malarial Parasites, Hydra, Obelia, Fasciola, Taenia, Ascaris, Nereis, Arenicola, Helix, Nephrops, and a Mosquito.
- (c) A general knowledge of the orders of Vertebrata; the structure and habits of Gadus, Raia, Rana, Columba, and Lepus.
- (d) Sexual and asexual reproduction; the early development of Amphioxus; the development and metamorphosis of Rana; the development of Gallus up to the third day of incubation; the early development of Lepus; the foetal membranes of birds and mammals.
- (e) The Geographical Distribution of Animals.
- (f) A general knowledge of Wallace's Darwinism.

The third term's work will consist of lectures and practical work on the Morphology of the Invertebrata. The groups to be studied in 1920 will be the Echinoderms, Mollusca, Crustacea, and certain Insecta; and in 1921 will be Protozoa, Porifera, Coelenterata, and Vermes.

BOTANY.

PROFESSOR BALFOUR and JAMES L. S. SMITH, M.A., B.Sc.

This is the Three-Term Course for Students preparing for the M.A. Examination.

Autumn Term.—Lectures on Tuesdays and Thursdays at 2 P.M.

Practical Work in the Laboratory from 3 P.M. until 5 P.M.

During this Term a study is made of the Morphology of Phanerogamic Plants and their elementary Physiology.

Spring Term.—Lectures on Tuesdays and Thursdays at 2 P.M.

Practical Work in the Laboratory from 3 P.M. until 5 P.M.

During this Term the life-histories of selected types of Cryptogamic Plants are studied.

Summer Term.—Lectures on Tuesdays and Thursdays at 2 P.M.

Practical Work at Laboratory from 3 P.M. until 5 P.M.

The work during this Term deals with Phanerogamic Plants, particularly those represented in the British Flora.

Excursions are made during the Course for the practical study of plants in the field.

Fee for the whole or any part of the Course, £6, 6s., and a Garden Fee of 5s.

The Subjects of Examination in Botany for the Ordinary Degree of M.A. are as follows:—

The characteristic features of the following groups of the vegetable kingdom:—

Thallophyta; Bryophyta; Pteridophyta; Spermatophyta.

The fundamental facts and principles of Organography, Physiology, and Geographical Distribution.

The life-history of the following plants:—*Bacillus*, *Badhamia*, *Nostoc*, *Protococcus*, a *Diatom*, *Spirogyra*, *Vaucheria*, *Fucus*, *Polysiphonia*, *Mucor*, *Pythium*, *Saccharomyces*, *Eurotium*, *Peziza*, *Claviceps*, *Puccinia*, *Agaricus*, *Physcia*, *Marchantia*, *Funaria*, *Sphagnum*, *Aspidium*, *Equisetum*, *Selaginella*, *Cycas*, *Taxus*, *Pinus*, *Scilla*, *Capsella*, *Ulmus*.

The characters of plants belonging to the chief British natural orders of Spermatophyta.

GEOLOGY, INCLUDING MINERALOGY.

PROFESSOR JEHU.

There are two Courses in this Subject, for details of which see under Courses in Pure Science. Each Course extends over Autumn, Spring, and Summer Terms.

(a) First Ordinary Course—4 to 5.

The Class meets on Mondays, Wednesdays, and Fridays during the Autumn and Spring Terms. During the Autumn Term Laboratory Demonstrations on Mineralogy and Petrology are given on Tuesdays and Thursdays at the same hour.

During the Summer Term the Class meets on Tuesdays and Thursdays from 4 to 5 o'clock. Demonstrations on Palæontology are given on Wednesdays at the same hour.

Excursions take place on Saturdays (6 to 8 in number during the Autumn and Spring Terms, and 4 to 6 in number during the Summer Term).

The work of the Course is distributed as follows:—*Autumn Term*—Historical Sketch of the Rise and Progress of the Science, Cosmical Geology, Mineralogy and Petrology, Dynamical Geology. *Spring Term*—Dynamical Geology (continued), Tectonic Geology, Physiographical Geology. *Summer Term*—Stratigraphical or Historical Geology. Three Class Examinations are held—one in each term.

DR CAMPELL, MR FINLAY, and PROFESSOR JEHU.

(b) Second Ordinary Course.

This Class meets on Mondays, Wednesdays, and Fridays, from 2 to 4 o'clock, during the Autumn and Spring Terms, and daily, from 1 to 2 o'clock, in the Summer Term.

The work of the Course is almost entirely practical, and embraces Mineralogy, Petrology, Palæontology, and the construction of Geological maps and sections.

There are three Examinations.

The Subjects of Examination in Geology for the Ordinary Degree of M.A. are as follows:—

1. *Dynamical Geology*.—The nature and operation of geological agents:—The Atmosphere, Rain, Terrestrial Waters, Ice, the Sea, Plants and Animals, Volcanoes, Movements of the Earth's Crust.
2. *Mineralogy*.—Characters of the chief rock-forming minerals.
3. *Petrology*.—Macroscopic and Microscopic Characters, Composition, Origin and Distribution of the more important Rocks.
4. *Structural Geology*.—Structure of Rock-masses, Inclination and Curvature of Rocks, Joints, Cleavage, Metamorphism, Faults, Overlap, Unconformity.
5. *Physiographical Geology*.—Origin of the present outlines of the Earth's surface.
6. *Palaeontological Geology*.—Characters and distribution in time, of the more important Orders and Genera found fossil in Britain.
7. *Stratigraphical Geology*.—History of the Geological Systems of the British Islands.

GEOGRAPHY.

G. G. CHISHOLM, M.A., B.Sc., *Lecturer*, and ALICE B. LENNIE, M.A., B.Sc., *Junior Lecturer*.

Ordinary Course.

The Class meets on Monday, Wednesday, and Friday, 4 to 5, during the three terms of the year.

The Course embraces both lectures and practical work, and covers the following subjects:—

Scope of Geography. Its relation to other branches of study, especially Geology, Economics, and History.

Cartography. The more useful projections, considered with reference to their advantages for different geographical purposes, and their unavoidable defects. Conventional signs in Cartography.

Form of the Earth. Distribution of land and water. Oceanic circulation, horizontal and vertical.

Meteorology and Climatology. The typical climates of different parts of the world, and their significance in relation to vegetation and animal life.

Typical land-forms and their relation to rock structure, and the various agents that modify the form of the earth's crust and affect its value as the scene of human activity.

The modes in which the surface of the earth is modified directly and deliberately, as well as indirectly and unintentionally, by man's action.

Economic Geography. The nature of the chief industries in different regions as determined by local conditions and the circumstances of the time. Conditions determining the situation and importance of towns.

Special attention will be given in this part of the course to the Mediterranean region and Central and Western Europe, including the British Isles.

Political Geography. Growth of states and determination of national and administrative boundaries. Relation of political and economic conditions.

Textbooks and Books of Reference. — Mill's *International Geography* (Macmillan); Mill's *Realm of Nature* (Murray); Dr M. I. Newbigin's *Physical Geography*; Taylor and Unstead's *Essentials of World Geography* (Philip); H. N. Dickson, *Maps: How They are Made, and how to Read Them* (Bacon); *Smaller Commercial Geography* and portions of the *Handbook of Commercial Geography*, by the Lecturer (both Longmans); A. W. Andrews, *Textbook of Geography* (Arnold); Mackinder's *Britain and the British Seas* (2nd ed., Clarendon Press); Hogarth's *The Nearer East* (Frowde); portions of Stanford's *Compendium of Geography and Travel* (volumes on Europe); L. W. Lyde, *The Continent of Europe* (Macmillan).

The Subjects of Examination in Geography for the Ordinary Degree of M.A. are as follows:—

The Class Lectures and Practical Work done in class, and the relevant portions of Mill's *Realm of Nature*, Newbigin's *Physical Geography*, the Lecturer's *Handbook of Commercial Geography* (latest edition), and the volumes on "Europe" in Stanford's *Compendium of Geography and Travel*.

ECONOMIC GEOGRAPHY I.

G. G. CHISHOLM, M.A., B.Sc., *Lecturer*

(Mondays, Wednesdays, and Fridays, 4 to 5.)

This class forms the second half of the course in Geography qualifying for the ordinary degree of M.A., beginning immediately after the mid-term holiday in February. The syllabus is that comprised in the last three paragraphs of that of the

ordinary course, but it should be noted that in addition to the parts of the world mentioned therein, India and the Far East, the United States, Canada, Australia, South Africa, and the Argentine Republic will be considered.

ECONOMIC GEOGRAPHY II.

G. G. CHISHOLM, M.A., B.Sc., *Lecturer.*

(Mondays, Wednesdays, and Fridays, Spring and Summer Terms, after the mid-term holiday of the Spring Term—9 to 10).

Political divisions in relation to economic development.

Character of national boundaries in relation to the means of defence and the economic requirements for defence.

Racial, linguistic, and religious differences within states.

Customs tariffs and commercial treaties.

Influence of the State on industry and commerce by labour and social legislation, control of the means of transport, of water-powers, and mineral resources, bounties, education, grants for development and research, the procuring and dissemination of commercial intelligence, and in other ways.

Federal states in which some of these powers are vested in the individual states or provinces.

Production.—Distinction between the use of this term in geography and economics.

1. Agriculture.—Importance of the distinction between production per head and production per acre. Effects of climate on the character of the labour. Soil and climate in relation to productivity of labour. Preservation and improvement of qualities of soil. Land reclamation—swamps (malarial and other), tidal lands, forest land, arid lands. Irrigation. Deterioration of land, whether through reckless destruction or improvident utilisation of the land. Effects of invention in relation to the place of agricultural production.

Forest products.

Mineral products.

Fisheries.

Manufactures.—Natural and commercial economy.

Relation of the seats of manufacturing industry to the supply of skilled and unskilled labour, the situation and extent of the market, the distribution of the sources of power and the distribution of capital.

The development and application of electrical energy as influencing the seats of industry and the mode of utilising fuel.

Geographical circumstances favouring the higher organisation of industry.

Circumstances favouring in some cases the dispersion, in others the concentration of manufacturing industry.

The Transport of Commodities.—Sea and land carriage.

Circumstances favouring the development of a mercantile marine.

Conditions in which inland waterways are economic, and those in which they are not so.

Competing or complementary utilisation of rivers in connection with irrigation, power development, and transport.

Influence of geographical conditions of various kinds on land transport, both by primitive and improved modern methods.

Geographical conditions affecting the carriage of goods according to the character of the commodity, the quantity in which it is carried, the packing and handling of the goods, the proportion of cost due to terminal charges, and the opportunity for return cargoes.

Importance of avoiding where practicable the carriage of waste material.

Aerial transport.

Means of Communication.—The languages of commerce. Postal services, telegraphy and telephony.

The Marketing of Commodities.—Geographical considerations in connection with the employment of commercial travellers, and the creation of large selling organisations.

Books recommended.—Chisholm, *Handbook of Commercial Geography* (Longmans); Russell Smith, *Industrial and Commercial Geography* (Constable); M'Farlane, *Economic Geography*; G. Olphe-Galliard, *La Force Motrice au point de vue Économique et Social* (Paris: Giard et Brière, 1915).

The subjects of examination in Economic Geography II. for the degree of B.Com. will be the lectures, the relevant parts of the lecturer's *Handbook of Commercial Geography*, latest edition, including the introductions, the sections on the general facts relating to the production, distribution, and exchange of commodities, those on the British Isles, France, Sweden and Norway, Italy, India, China, Japan, Egypt, tropical and South Africa, America and Australasia, and the section on trade routes.

HISTORY OF GEOGRAPHY.

ALICE B. LENNIE, M.A., B.Sc., *Lecturer*.

(Mondays, Wednesdays, and Fridays, Autumn Term, 3 to 4.)

Place of Greek civilisation in the ancient world. Gradual extension of geographical knowledge among the Greeks, and development of geography as a distinct branch of knowledge. Geography of Strabo and Ptolemy. Geography among the Romans and Eastern nations. Retrogression in early Middle Ages in Europe. Maps of the period. Arab travel and geography of the period. Revival in later Middle Ages. Return to Ptolemy's geography, and influence of that return on cartography. The great land journeys to Eastern Asia and their results. Search for and discovery of the sea-way to India, with the discovery of America as an incident in that search. Exploration of North and South America. Search for the north-east and north-west passages to Asia. Exploration of Africa and Australia. Growth of the science of geography, physical and economic. Modern developments in map-making.

Books recommended.—E. H. Bunbury, *History of Ancient Geography*, 2 vols. (Murray); H. F. Tozer, *History of Ancient Geography* (Cambridge University Press); C. R. Beazley, *Dawn of Modern Geography*, 3 vols. (Murray); J. Scott Keltie and O. J. R. Howarth, *History of Geography* (Watts & Co.); E. Heawood, *History of Geographical Discovery in the Seventeenth and Eighteenth Centuries* (Cambridge University Press); P. G. Alexander, M.A. (editor), *Cambridge Travel Books* (Cambridge University Press):—*The Discovery of America, 1492-1584*; *The N.W. and N.E. Passages, 1576-1611*; *The Earliest Voyages Round the World*.

Subjects of Examination.—The lectures and published matter to be mentioned in the class.

HISTORICAL GEOGRAPHY.

ALICE B. LENNIE, M.A., B.Sc., *Lecturer.*

(Mondays, Wednesdays, and Fridays, Spring Term, 3 to 4.)

Twofold relation between geography and history in respect, first, of the influence of geographical conditions on the course of history; and, second, of the modification of geographical values brought about in the course of history. Geographical factors favourable and unfavourable to the early development of civilisation. The two regions of relatively dense population in early times (the Mediterranean and monsoon Asia); their relations to one another and to the surrounding deserts and steppes. Influence of geographical conditions as offering motives for invasion, favouring conquest or defence, determining the routes and modes of invasion, and affecting the settlement after conquest. Influence of geographical conditions in promoting the spread of civilisation round the Mediterranean and thence to other parts of Europe. The conflicts in wide cultivable plains, in particular between Teutons and Slavs in Europe. The growth of Russian dominion from Moscow as a centre after the decay of Mongol power, and the spread of Russian dominion in the fur-yielding tracts of Siberia. Discovery of America and the sea-way to India and their effects. Ocean navigation and expansion of Europe. Geographical conditions affecting the progress of settlement in North and South America. Geographical circumstances that retarded the development of the greater part of Africa and the whole of Australasia.

Books recommended.—J. L. Myres, *Dawn of History* (Home University Library); James Fairgrieve, *Geography and World-Power* (University of London Press); T. Crocket and B. C. Wallis, *North America during the Eighteenth Century* (Cambridge University Press); Lucas and others, *Historical Geographies of the British Empire* (Oxford University Press); Hereford B. George, *Historical Geography of the British Empire* (Methuen); Sir Thomas H. Holdich, *Political Frontiers and Boundary Making* (Macmillan).

The subjects of examination will be the lectures and published matter to be mentioned in the class.

ECONOMIC ETHNOGRAPHY.

G. G. CHISHOLM, M.A., B.Sc., *Lecturer*.

(Mondays, Tuesdays, and Thursdays, Autumn and Spring Terms, 2 to 3.)

I. (*Autumn Term*).—The Arabs at the close of the fifteenth century. The peoples of India, the Malay Archipelago, China, Japan, Africa, the New World and Australasia, at the time when the Portuguese, Dutch, Spanish, French and English first came in contact with them and the effects of that contact before the development of modern means of production and transport. Negro slavery.

II. (*Spring Term*).—The conditions of production of raw produce and the development of mining and manufacturing industries in recent times in India, China, the Malay Peninsula and Archipelago, in different parts of Africa (including Egypt) and in Brazil. The present condition of the negroes in the New World.

Books recommended.—A. J. and F. D. Herbertson, *Man and his Work* (Black); A. H. Keane, *The World's Peoples* (Hutchinson); F. Ratzel, *The History of Mankind* (Macmillan); Brunhes, *La Géographie Humaine* (Felix Alcan); Justin Winsor, *History of America*, Vol. I. (Sampson Low); Sir H. H. Johnston, *The Negro in the New World* (Methuen). Consular reports and other official documents to be mentioned in class.

The subjects of examination will be the lectures, Herbertson's *Man and his Work*, and portions of *The World's Peoples*.

ECONOMIC GEOGRAPHY.

Honours Course.

G. G. CHISHOLM, M.A., B.Sc., *Lecturer*.*Spring and Summer Terms.*

(Mondays, Wednesdays, and Fridays, from 3 to 4.)

The Course will comprise at least fifty meetings of the Class, either for lectures or for the discussion of students' essays. The lectures will include a few devoted to Cartography, more especially the cartographic representation of economic data, but for the most

part will offer an analysis of the economic and commercial development of some of the leading commercial countries of the world during the last forty or fifty years, with special reference to the geographical conditions that have influenced that development. The analysis will be based on an examination of the statistical data in the lecturer's *Handbook of Commercial Geography*. The students' essays will involve the handling of statistics, and students will be expected to be familiar with elementary statistical methods, as treated, for example, in Bowley's *Elementary Manual of Statistics* (Macdonald & Evans), part i. and chs. iii.-vi. of part ii.

Books recommended in addition to those mentioned. — J. M'Farlane, *Economic Geography* (London: Pitman); Lyde, *The Continent of Europe*; E. C. Semple, *Influences of Geographic Environment* (New York: Holt); J. Russell Smith, *Industrial and Commercial Geography* (London: Constable); Brigham, *Commercial Geography* (Boston: Ginn & Co.); Gregory, Keller, and Bishop, *Physical and Commercial Geography* (Boston: Ginn & Co.); Brunhes, *La Géographie Humaine*, 2nd ed. (Paris: Alcan).

The Subjects of Examination in Economic Geography for the Degree of M.A. with HONOURS IN ECONOMIC SCIENCE are given on p. 200.

POST-GRADUATE COURSES IN THE DEPARTMENT OF SCIENCE.

Graduates of this or other Universities who contemplate Post-Graduate Research should communicate with the Dean of the Faculty of Arts.

Pure Mathematics.

LECTURES TO RESEARCH STUDENTS. (See p. 210.)

Professor Whittaker lectures (in general, twice a week) to the research students and post-graduate workers on current developments in Mathematical Science. The principal aim of the lectures is to bring into prominence topics suitable for original investigation. The hours of lectures are arranged at the beginning of each term.

ADVANCED HONOURS COURSE. (See p. 209.)

This class meets daily, from 10 to 11, during the Autumn and Spring Terms. The Course is devoted to Higher Mathematical Analysis, both practical (in the Mathematical Laboratory) and theoretical; including the Theories of Convergence, Continuity and Uniformity, Theory of Analytic Functions, Definite Integrals, Differential Equations, Harmonic Analysis, Elliptic Functions, Frequency Curves, Method of Least Squares, Construction and Use of Mathematical Tables. Special attention is given to those parts of the subject which are of frequent application in Natural Philosophy.

ADDITIONAL SUMMER COURSE. (See p. 210.)

This class meets during the Summer Term, from 11 to 12, on Mondays, Wednesdays, and Fridays. The subject is varied from year to year, but the selected topics are generally of an algebraical character, *e.g.*, Theory of Matrices, Advanced Theory of Determinants, Theory of Invariants, Theory of Elimination, Theory of Groups.

Applied Mathematics.

CARGILL G. KNOTT, D.Sc., LL.D., *Lecturer.*

Intermediate Honours Course in Analytical Dynamics (including Potential Theory). Three Terms. (See p. 211.)

Advanced Honours Courses (see p. 212):—

Hydrodynamics, Aerodynamics, and Elasticity. Autumn Term.

Waves in Matter and Aether. Spring Term.

Kinetic Theory of Gases and Radiation. Summer Term.

Quaternions (if required). Summer Term.

Natural Philosophy.

HONOURS COURSES.

Electricity.—25 lectures. Professor Barkla. (See p. 214.)

Heat.—25 lectures. Dr Carse. (See p. 214.)

General Physics.—25 lectures. Dr Allen. (See p. 214.)

Optics (principally Geometrical).—25 lectures. Dr Milne. (See p. 214.)

ADVANCED HONOURS COURSES.

Electricity.—Dealing particularly with recent researches on X-rays, Radioactivity, and Modern Electrical Theory. Professor Barkla and Dr Carse. Autumn, Spring, and Summer Terms. 75 lectures. (See p. 214.)

Heat (Thermodynamics).—25 lectures. Professor Barkla. (See p. 215.)

General Physics.—25 lectures. Dr Allen. (See p. 215.)

Physical Optics.—25 lectures. Dr Milne. (See p. 215.)

The Physics Laboratory is open for Research to students who can give satisfactory evidence of having taken advanced laboratory work in other universities or similar institutions. (See p. 82.)

For **Astronomy, Chemistry, Zoology, Botany, and Geology**, see under Faculty of Science, pp. 411-413.

For **Geography**, see p. 250.

IV. Department of History and Law.

HISTORY.

PROFESSOR SIR RICHARD LODGE.

The Course qualifies for Graduation in Arts. The subject, until further notice, is **GENERAL BRITISH HISTORY**, divided into the following Periods and Subjects :—

Part I.—1. The Original Peoples of Britain and the Roman Occupation.—2. The Growth of the English Nation.—3. The Growth of the Scottish Nation.—4. The Institutions of England before the Norman Conquest.—5. Norman and Angevin Rule.—6. Simon de Montfort and Edward I.—7. The Hundred Years' War.—8. Constitutional Development during the War.—9. The Social Importance of the Fourteenth Century.—10. The Scottish Monarchy, Nobles, and Parliament.—11. Personal Monarchy in England.—12. Social Changes in England under the Tudors.—13. The Reformation in England.—14. The Reformation in Scotland.

Part II.—15. Crown and Parliament (1603-1640).—16. The Long Parliament and the Protectorate (1640-1660).—17. Restoration and Revolution (1660-1689).—18. Colonies and Commerce (1600-1689).—19. Whigs and Tories: William III. and Marlborough (1689-1714).—20. Scotland and Ireland: the Union (1689-1714).—21. The Whig Supremacy (1714-1760).—22. India and America (1714-1763).—23. George III. and the Parliament (1760-1783).—24. The American War (1763-1783).—25. Pitt and the French Revolution (1783-1815).—26. Ireland: the Union (1715-1800).—27. Reaction and Reform (1815-1832).

WORK OF THE CLASS.—I. The Class will meet on Tuesdays, Wednesdays, and Fridays at II.

2. During the three terms the Class will meet in small sections for tutorial instruction. These meetings will be held on Mondays and Thursdays at II.

3. Three Class Examinations will be held, and three or more Essays set, during the three terms. Honours will be awarded to candidates distinguished both in the examinations and in the essays.

Students in this Class may attend Mr Heatley's "Mackay Lectures" without fee.

Books recommended.—For elementary purposes, T. F. Tout's *Advanced History of Great Britain*, or Ransome's *Advanced History of England*, J. R. Green's *Short History of the English People*, C. R. L. Fletcher, *Introductory History of England*, Woodward, *The Expansion of the British Empire*, with Hume Brown's *History of Scotland*, and Morris' *History of Ireland* (Cambridge Series). For the seventeenth century, the two volumes (1603-1660 and 1660-1714) of Bell's *History Source Books* are prescribed, and the following books are recommended:—G. M. Trevelyan's *England under the Stuarts*, Firth's *Oliver Cromwell*, Lodge's *Political History of England*, 1660-1702, Mathieson's *Politics and Religion in Scotland*.

The Subjects of Examination in History for the Ordinary Degree of M.A. are as follows:—

General British History, viz.:—(1) History of the British Isles from B.C. 55 to A.D. 1837, in outline; (2) The same from 1603 to 1689, in detail.

The Examiners will attach greater importance to a grasp of principles than to mere knowledge of details.

Books recommended.—(a) For the *General History*: T. F. Tout's *Advanced History of Great Britain*, or Ransome's *Advanced History of England*, Green's *Short History of the English People*, C. R. L. Fletcher's *Introductory History of England*, Hume Brown's *History of Scotland*, Morris' *History of Ireland*, Woodward's *Expansion of the British Empire*. (b) For the *Special Period*: G. M. Trevelyan's *England under the Stuarts*, Firth's *Oliver Cromwell*, Lodge's *Political History of England*, 1660-1702, Mathieson's *Politics and Religion in Scotland*. Candidates are required to study the two volumes of Bell's *English History Source Books*, which deal with the periods 1603-1660 and 1660-1714.

Honours Course.

PROFESSOR SIR RICHARD LODGE.

The subject for 1919-20 is

The History of Europe from 1715-1815.

The following books are prescribed :—*Mémoires de Frédéric II.* (ed. Boutaric); *Diaries and Correspondence of the First Earl of Malmesbury*, vol. ii., pp. 66-443, and vol. iii., pp. 369-599; *Autobiography of Metternich* (trans.), to 1815.

Books recommended for the use of the Class.—Lavissee et Rambaud, *Histoire Générale*; Martin, *Histoire de France*, tomes xv. and xvi.; Carlyle, *Frederick the Great*; Rambaud, *History of Russia*; Sorel, *La Question d'Orient au Dix-huitième Siècle*; Mahan, *The Influence of Sea Power upon History* and *The Influence of Sea Power upon the French Revolution and Empire*; De Tocqueville, *France before the Revolution*; *The Cambridge Modern History*, vols. viii. and ix.; Mignet, *History of the French Revolution*; Carlyle, *The French Revolution* (ed. by C. R. L. Fletcher); Sorel, *L'Europe et la Revolution Française*; Seeley, *Life and Times of Stein*; Fyffe, *History of Modern Europe*, vol. i.; J. Holland Rose, *Life of Napoleon*; Vandal, *Napoleon et Alexandre I.*; Sorel, *Le Traité de Paris*.

This Course of fifty lectures qualifies for Graduation in Arts with Honours in History. The Lectures will be given during the Autumn and Spring Terms on Tuesdays, Wednesdays, and Fridays at 10. Tutorial instruction in the prescribed books will be given, at times to be arranged with the Class.

Two Class Examinations will be held, and three or more essays set. Students in this Class may attend Mr Heatley's "Mackay Lectures," without fee, and may use the History Reading Room.

The Honours Subject for 1919-20 will be—*The History of Europe from 1715-1815.*

The Subjects of Examination in European History for the Degree of M.A. with HONOURS IN HISTORY are given on page 246.

CONSTITUTIONAL LAW AND CONSTITUTIONAL HISTORY.

PROFESSOR MILLAR.

(See under Faculty of Law.)

The Subjects of Examination in Constitutional Law and Constitutional History for the Ordinary Degree of M.A. are as follows :—

Constitutional Law and Constitutional History, as treated in the lectures, and in the works of the authorities referred to in the synopsis thereof.

CONSTITUTIONAL HISTORY.

Honours Course—Fifty Lectures.

PROFESSOR MILLAR.

The subject for 1919-20 is

Constitutional History from 1688.

Books of reference.—Robertson's *Select Statutes, Cases, and Documents*, Anson on the *Law and Custom of the Constitution*, Dicey on the *Law of the Constitution*, Dicey's *Law and Public Opinion in England*, A. Lawrence Lowell's *Government of England*, May's *Constitutional History*, and other works which will be indicated during the Course.

Students will also be referred to Statutes and other contemporary documents.

This Course, qualifying for graduation in Arts with Honours in History, will be given during the Autumn and Spring Terms (Wednesdays, Thursdays, Fridays, at 4 P.M.). Students attending them may use the History Library, and may attend the "Mackay Lectures" without additional fee.

The Subjects of Examination in Constitutional History for the Degree of M.A. with HONOURS IN HISTORY are given on page 246.

SCOTTISH HISTORY AND PALÆOGRAPHY.

PROFESSOR HANNAY.

I. Ordinary Course (Mondays, Wednesdays, and Fridays, from 3 to 4 P.M., during the Autumn, Spring, and Summer Terms).—This course qualifies for the Ordinary Degree, as a double course to be taken with British History. Hume Brown's *History of Scotland* will be the text-book. Lectures will deal with important features of the general history, with emphasis upon the prescribed special period, viz., 1542-1603. Students should read Knox's *History of the Reformation*.

II. Honours Course (Mondays, Wednesdays, and Fridays, from 4 to 5 P.M., during the Autumn and Spring Terms).—This course qualifies for graduation in Arts with Honours in History. It will bear mainly upon the prescribed special period, viz., 1371-1542, and will be designed to aid students in dealing with the original authorities. The course in Palæography (see below) will also bring students into direct contact with these authorities, and they will find it useful.

III. Palæography (Tuesdays and Thursdays, from 4 to 5 P.M., during the Autumn and Spring Terms).—This course will be directed mainly to the practical study of Scottish records, so as to prepare students for independent research. Some knowledge of Latin is indispensable; but attention will be given also to documents in the vernacular. The course will be connected as closely as possible with the Honours Course in Scottish History.

The Subjects of Examination in Scottish History for the Ordinary Degree of M.A. are as follows:—

(1) A general knowledge of Scottish History to 1832. (2) A more detailed knowledge of the period 1542-1603. Candidates should read Knox's *History of the Reformation*.

The Subjects of Examination in Scottish History for the Degree of M.A. with HONOURS IN HISTORY are given on p. 246. For the Degree of M.A. with HONOURS IN ECONOMIC SCIENCE (p. 198), candidates in Palæography will be required to show sufficient practical skill.

ECCLESIASTICAL HISTORY.

PROFESSOR MACKINNON.

Ordinary Course.

Full Course qualifying for the M.A. Ordinary Degree (if taken after British History) on the History of the Christian Church from the beginning of the 14th century to the end of the 16th.

Special attention will be devoted to the Origins and Progress of the Reformation, and to English and Scottish Ecclesiastical History in the 16th Century.

Books recommended.—Locke, *The Age of the Great Western Schism*; Van Dyke, *The Age of the Renaissance*; Lindsay, *History of the Reformation*; Workman, *The Dawn of the Reformation*; Fisher, *History of the Reformation*; *Relative Chapters in the Cambridge Modern History*.

Instead of this Course, that on the History of the Christian Church during the first six centuries may be given during the Academic year, 1919-20.

The Class meets five times a week, during the Autumn and Spring Terms, at 10 o'clock.

The Subjects of Examination in Ecclesiastical History for the Ordinary Degree of M.A. are as follows:—

The History of the Christian Church, from the beginning of the 14th century to the end of the 16th. The papers for the M.A. Degree will not be the same as for the B.D. Degree, and the standard of attainment will not be so high. For books recommended in addition to the Class Lectures, see the Ordinary Course of the Professor of Ecclesiastical History, as above.

Honours Course.

Full Course qualifying for the M.A. Degree, with Honours in History, on the Reformation in the 16th century.

The Class will meet at least fifty times during the Autumn and Spring Terms, on Mondays, Wednesdays, and Fridays. The hour of meeting is provisionally fixed at 11 o'clock.

A special knowledge of the following contemporary works will be required for the degree examination :—

The following three Reform pamphlets of Luther—"An den Christlichen Adel Deutscher Nation (1520)"; "De Captivitate Babylonica Ecclesiæ (1520)"; "Von der Freiheit eines Christen Menschen (1520)." These will be found in any edition of Luther's works (preferably the *Kritische Gesamtausgabe*, edited by Knaacke), and an English translation by Wace and Buchheim. *Histoire Ecclesiastique*, attributed to Beza, up to 1560. Gee and Hardy, *Documents Illustrative of English Church History*, Nos. 45 to 80. Knox's *Historie of the Reformation in Scotland*, edited by D. Laing (period 1559-67).

The lectures will deal with the origin and progress of the Reformation in Germany, Switzerland, France, England, and Scotland, and will treat to some extent of the political and social as well as the religious aspect of this movement.

Advanced Course.

Seminar or Advanced Class for the study of Documents relative to the History of the Reformation, including most of those prescribed for the B.D. and Hons. M.A. examinations. An Advanced Class will also be held during the Summer Term, if a sufficient number of students offer themselves. See under Faculty of Divinity.

The Subjects of Examination in the History of the Reformation for the Degree of M.A. with HONOURS IN HISTORY are given on page 246.

ANCIENT (GREEK AND ROMAN) HISTORY.

A. F. GILES, M.A., *Lecturer*.

Ordinary Course.

Ancient History may be taken as a subject of examination for the Ordinary Degree of M.A., either as an independent subject or as a member of certain groups of "cognate subjects" (see p. 140).

The Class meets daily from Tuesday to Friday in all three Terms at 12 o'clock. The meetings of the Class on Thursday will be largely devoted to tutorial instruction. The Course is divided into three sections as follows:—

- (i) Autumn Term: The history of the Greek States from the sixth century B.C. to the Roman Conquest.
- (ii) Spring Term: The history of the Roman Republic to the Battle of Actium.
- (iii) Summer Term: The history of the Roman Empire to the Foundation of Constantinople.

For list of books recommended, see below.

An advanced knowledge of Latin and Greek is not necessary; but it is desirable that students taking Ancient History should be attending or should have attended the ordinary classes in Latin and Greek.

N.B.—Students reading for Honours in Classics or in History may attend any of the three terminal sections of the Ordinary Course separately, as introductory to the Honours Half-Courses, on payment of a fee of £1, 1s. for each term. Such attendance does not *qualify* for any degree examination.

The Subjects of Examination in Ancient (Greek and Roman) History for the Ordinary Degree of M.A. are as follows:—

The general course of Greek History from the sixth century B.C. to the Roman Conquest, with special reference to the history of Athens; and of Roman History to the third century A.D., with special reference to the republican and imperial constitutions and the government of the provinces. Candidates will be expected to show knowledge of the subject-matter of the Greek and Roman historians, as referred to in class lectures.

Books recommended.—For reading in connection with lectures—Warde Fowler's *City-State of the Greeks and Romans*; Greenidge's *Greek Constitutional History and Roman Public Life*; Bury's *History of Greece*; Mahaffy's *Alexander's Empire*; Pelham's *Outlines of Roman History*; Stuart Jones's *Roman Empire*; Arnold's *Roman Provincial Administration*.

For reference and extended reading.—Histories of Greece by Grote, Abbott, and Holm; Grundy's *Great Persian War and Thucydides and the History of his Age*; Zimmern's *Greek Commonwealth*; Glover's *From*

Pericles to Philip; Gilbert's *Constitutional Antiquities of Athens and Sparta*; Bevan's *House of Seleucus*; Freeman's *Federal Government in Greece and Italy*; Heitland's *Roman Republic*; Mommsen's *History of Rome and Provinces of the Roman Empire*; Gibbon's *Decline and Fall* (Bury's Edition), vols. i. and ii.; vol. i. of the *Cambridge Mediæval History*; Reid's *Municipalities of the Roman Empire*; Maine's *Ancient Law*; the *Cambridge Companions to Greek and Latin studies*; Stuart Jones's *Companion to Roman History*. Other works will be indicated in class.

(For Honours Half-Courses, see Department of Classics, p. 149.)

COLONIAL AND INDIAN HISTORY.

JOHN EWING, M.C., M.A., *Lecturer*.

Ordinary Course.

Tuesday, Thursday, Friday, 10 A.M.

The Course is divided into three parts—(A) the Old Colonial System (to 1783); (B) the Self-Governing Dominions; (C) India, Crown Colonies, and Dependencies.

A. The New Trade Routes—Attacks on Spanish and Portuguese Monopolies in West and East—Economic Difficulties of Colonisation—The Slave Trade—The Navigation Acts—Collision with the French, 1688-1763—Machinery of Colonial Government and Causes of Friction—Colonial Defence and Taxation—Causes of the Loss of the First Colonial Empire.

India under the Moguls—The European Companies—Clive and the Struggle with France—The Occupation of Bengal—Hastings and his Difficulties—Pitt's India Act of 1784.

B. CANADA.—The Proclamation of Oct. 7, 1763, and the Quebec Act, 1774—The U.E. Loyalists add a British Canada to French Canada—Their working side by side under the Constitutional Act (1791-1840) and together under the Union Act (1841-67)—The Grant of Responsible Government and the founding of the Dominion—Growth of Greater Canada—Relations with the United States.

AUSTRALIA.—Transportation—Exploration—"The Wakefield Theory" of Systematic Colonisation—Wool and

Gold — Responsible Government — Land, Tariff, and Labour Questions—International Politics in the Pacific —Constitution of the Commonwealth.

NEW ZEALAND.—The Maoris before and since annexation — The New Zealand Company — Economic and Political Development—Experiments in State Socialism.

SOUTH AFRICA. — The Native Question — Relations of Dutch and English—Plans of Federation (Grey, Carnarvon, Rhodes)—The two Boer Wars—Constitution of the Union—Economic Development.

IMPERIALISM and the Imperial Conferences.

C. Geographical Distribution of the Peoples of India—Their Religion and Social and Economic Conditions—The Great Pacification—The Mahrattas, the Sikhs, etc.—Afghanistan and Burma—Lord Dalhousie and the Doctrine of "Lapse"—The Mutiny—The Government of India under the Crown—Economic Progress—Humanitarian and Educational Reforms—The Nationalist Movement.

"Colonies of Exploitation"—Problems of Tropical Administration—Partition of Africa—The Far East and the Pacific—The West Indies—"The Native Question"—Importance of Sea Power.

The Subjects of Examination in Colonial and Indian History for the Ordinary Degree of M.A. are as follows:—

- (1) The First Empire to 1783; (2) The Self-Governing Dominions;
- (3) India, Crown Colonies and Dependencies.

Books recommended.—Egerton's *History of British Colonial Policy*; Dickerson's *American Colonial Government*; Channing's *History of the United States*; G. L. Beer's books on the economic history of the colonies; J. A. Doyle's *The English in America*; Trevelyan's *American Revolution*; Lucas's *Historical Geography of the Colonies*; colonial volumes in the "Cambridge Historical" series; Wyatt Tilby's *The English People Overseas*; *The British Empire*, published by the League of the Empire; Pember Reeves' *The Long White Cloud*; *Canada Source Book* (G. Bell & Sons); F. R. Cana's *South Africa from the Great Trek to the Union*; Sir W. Hunter's *History of British India*; H. G. Keene's *History of India*; L. J.

Trotter's *India under Victoria*; "The Rulers of India" series; relevant chapters in the *Cambridge Modern History*; and the accounts of Imperial statesmen in the *Dictionary of National Biography*.

Honours Course.

Tuesday, Thursday, and Friday, 11 A.M.
Autumn and Spring Terms.

The subject of the lectures is

The Self-Governing Colonies since 1837.

Colonial Policy and Thought about Colonies: Emigration, Colonisation, and Exploration: Racial Problems: Economic Development: Rise of Colonial Democracy and Colonial Nationalism: Imperial Organisation and International Relations.

Books recommended.—A. B. Keith's *Responsible Government in the Dominions*; Sir C. Lucas's edition of Lord Durham's *Report*; H. E. Egerton's *Federations and Unions in the British Empire*; Egerton and Grant's *Canadian Constitutional Development*; R. C. Jebb's *Studies in Colonial Nationalism*, and *The Imperial Conference*; *The Oxford Survey of the British Empire*; G. M. Theal's *South Africa*; G. W. Rusden's *Australia*, and *New Zealand*; Dent's *Last Forty Years in Canada*; Biographies of leading Governors and Statesmen; the principal Parliamentary Papers—for which see *Guide to Parliamentary Papers relating to the Dominions*, 1812-1911, published by Messrs Oliver & Boyd; *The Annual Register*; *The Colonial Office List*.

The Subjects of Examination in Colonial and Indian History for the Degree of M.A. with HONOURS IN HISTORY are given on page 247.

POLITICAL SCIENCE.

D. P. HEATLEY, *Lecturer.*

A full Honours Course on Political Science for graduation with Honours in History and in Economic Science will be given in two parts of twenty-five lectures each :—

(1) *Spring Term*, on Mondays, Wednesdays, and Fridays, at 12 :—

The History of Political Thought since the Reformation, with a retrospect. The Course will include a comparative study of political theories.

(2) *Summer Term*, on Mondays, Wednesdays, and Fridays, at 12 :—

The Modern State : The Scope of Politics ; "Society" and "The State" ; Foundations, Structure, and Working of the State ; Functions of Government ; Legislative and Administrative Methods ; Central and Local Authority ; Representative Government ; Problems of Modern Democracy ; the Federal State.

Books.—Woodrow Wilson, *The State*, Willoughby, *The Nature of the State* ; Sidgwick, *Elements of Politics* ; Green, *Principles of Political Obligation* ; Bosanquet, *Philosophical Theory of the State* ; Aristotle, *Politics* ; Gierke, *Political Theories of the Middle Age*, transl. and ed. by F. W. Maitland ; Hobbes, *Leviathan*, part ii. ("Of Commonwealth") ; Locke, *Civil Government* ; Rousseau, *Contrat Social* ; Mill, *Representative Government* ; *The Federalist*, ed. by H. C. Lodge ; Figgis, *Studies of Political Thought from Gerson to Grotius* ; Dicey, *Law of the Constitution and Law and Public Opinion in England* ; Janet, *Histoire de la Science Politique* ; Bryce, *Studies in History and Jurisprudence* ; Graham, *English Political Philosophy from Hobbes to Maine*.

Elementary Politics.

This Course will be given during the *Spring Term* on Tuesdays and Thursdays at 12.

- I. Fundamental Terms and Considerations in the Study of Politics. •
- II. The Organisation and Conduct of Government in Britain to-day (with references to other States).
- III. (a) Federalism.
(b) Government within the British Empire.
- IV. Relations between States, and the conduct of international policy.

HISTORY.

Britain in the Eighteenth and Nineteenth Centuries.

(*Mackay Lectures in History.*)

D. P. HEATLEY, *Lecturer.*

This Course will be given during the *Summer Term* on Tuesdays and Thursdays at 10.

Lecky's and Spencer Walpole's *Histories* may be used in connection with the lectures.

British History (Honours Course).

D. P. HEATLEY, *Lecturer.*

A Course of fifty lectures qualifying for graduation with Honours in History will be given in two parts of twenty-five lectures each:—

(1) *Autumn Term*, on Mondays, Wednesdays, and Fridays, at 12: *The History of England to 1307.*

(2) *Summer Term*, on Mondays, Wednesdays, and Fridays, at 10: *The History of England, 1485-1660.*

The lectures will be on both general and constitutional history. The work will include a study of the three volumes of documents edited by Stubbs, Prothero, and Gardiner.

The Subjects of Examination in Political Science for the Degree of M.A. with HONOURS IN HISTORY AND IN ECONOMIC SCIENCE are given on page 246.

FINE ART.

PROFESSOR BALDWIN BROWN.

Graduation Course.

A Course of about one hundred lectures on *The History and Theory of the Fine Arts*, covers the three terms of the academical year. This Course is included among the subjects cognate with History, with which it may be grouped as a Double Course.

In the arrangement of the lectures a historical order is observed, and the artistic annals of Europe and the nearer East

are followed from the earliest manifestations of Art in primitive civilisation, through Egypt and Babylonia, and the Classical, Early Christian, and Mediæval epochs, to the more modern developments of Painting and the other arts in our own days. At the same time the theoretical and critical points of view are maintained throughout, and the principles that underlie the concrete facts of Art are constantly kept in mind.

On the historical side—

The connection of the Arts with the national, religious, and social life of successive epochs is fully explained and illustrated.

On the artistic side—

Particular stress is laid on the explanation of different materials and technical processes, as upon these largely depend the particular forms in which beauty is realised in the various works of human hands.

Arrangements for the work of the Class:—In each of the three Terms there are Lectures at 3 P.M. on Monday, Tuesday, Wednesday, and Thursday. Three or more Class Examinations are held, and a series of eight Essays are set for the Cousin Prize (£15). At least four satisfactory Essays are included in the work required from those taking the Course for Graduation.

The Class Library, Reading-Room, and collections of examples are open to members of the Class.

Museums, etc., are visited from time to time on Saturdays.

The Professor's manual, *The Fine Arts*, is used, so far as it goes, as a textbook. Other books to be read by those taking the Course for Graduation are indicated below.

The Subjects of Examination in Fine Art for the Ordinary Degree of M.A. are as follows:—

The subjects for examination will be the Class Lectures, the Professor's Manual, *The Fine Arts* (4th Ed.), Conway's *Dawn of Art in the Ancient World*, Tarbell's *History of Greek Art*, Poynter's *Classic and Italian Painting*. Candidates will be expected to show some knowledge of the original authorities for the different periods of Art History.

CLASSICAL ARCHÆOLOGY—Honours Course.

See page 148.

The Subjects of Examination in History of Art for the Degree of M.A. with HONOURS IN HISTORY are given below.

EXAMINATIONS FOR GRADUATION IN ARTS WITH HONOURS IN HISTORY.

SUBJECTS FOR 1920.

Candidates for Honours in History must attend at least Four Courses in History, two at least of which must be Honours Courses.

Of the following subjects candidates must take Nos. i., ii., and iii., and also two branches under No. iv., one of which must be (a) or (b).

- i. General British History from B.C. 55 to A.D. 1837, two papers.
- ii. The Constitutional History and Constitutional Law of England, three papers—(a) to 1399, (b) from 1399 to 1688, (c) from 1688.
- iii. Political Science : (1) Nature, structure, and working of the State ; (2) History of Political Theories, especially since the Reformation. A knowledge of the following works is required :—Aristotle, *Politics* (a general knowledge) ; Gierke, *Political Theories of the Middle Age*, translated and edited by Maitland ; Hobbes, *Leviathan*, part ii. ("Of Commonwealth") ; Locke, *Civil Government* ; Mill, *Representative Government*. One paper will be set in this subject.
- iv. Two papers on each of two of the following subjects, one of which must be (a) or (b) :—
 - (a) European History from 1715 to 1815, with special study of *Mémoires de Frédéric II.* (ed. Boutaric) ; *Diaries and Correspondence of the First Earl of Malmesbury*, vol. ii. pp. 66-443 ; vol. iii. pp. 369-599 ; *Autobiography of Metternich*, to 1815.
 - (b) The History of the Reformation. (For the prescribed books, see the Honours Course of the Professor of Ecclesiastical History, p. 237.)
 - (c) Scottish History from 80 A.D. till 1832. Special period from 1057 till 1286. Books prescribed for special period :—Turgot, *Life of St Margaret* in Pinkerton's *Vitae Antiquae Sanctorum* ; A. O. Anderson's *Scottish Annals from English Chroniclers* pp. 176-238 ; John of Fordun's *Chronicle of the Scottish Nation* (Historians of Scotland, ed. W. F. Skene), *Annals*, pp. 248-305.
 - (d) (1) The general course of Greek History to the death of Alexander. (2) Special period of Greek History, 621-490 B.C., with Herodotus, bks. i., v., and vi. ; Aristotle, *Constitution of Athens*, ch. 1-21.
 - (e) (1) The general course of Roman History to the death of Nero. (2) Special period of Roman History, 60 B.C.-A.D. 14, with Cicero's *Letters* (Watson's Selections, parts i., ii., and v.) ; Caesar, *Civil War* ; Suetonius, *Augustus* ; the *Monumentum Ancyranum*.

- (f) (1) The general Economic History of the British Isles from 55 B.C.—1900 A.D., with that of the United States in the 19th century. (2) The Economic History of the British Isles and the Empire (1760-1910). (For authorities, see the Regulations for Honours in Economic Science, p. 199.)
- (g) History of Art: The general subject, embracing—The Class Lectures; The Professor's Manual, *The Fine Arts*; Conway's *Dawn of Art in the Ancient World*; Maspero's *Dawn of Civilisation and Struggle of the Nations*; Woltmann's *History of Painting*, vol. i.; Vasari's *Lives* of Giotto, Angelico, Donatello, Brunelleschi, Michelangelo (in Blashfield and Hopkins' edition of the *Lives*).
- (h) Colonial and Indian History:—(1) Outlines of the subject as studied in the Ordinary Class; (2) Special subject, "The Self-governing Colonies since 1837." (For authorities, see p. 241.)

SUBJECTS FOR 1921.

The examination will be as above, except as follows:—In Economic History the subjects will be—(i.) The General Economic History of the British Isles from 55 B.C.—1900 A.D., with that of the United States in the 19th century; (ii.) The Economic History of the British Isles during the sixteenth and seventeenth centuries. The Special Subjects in Greek and in Roman History are the same as those stated in the Department of Classics, on p. 152. In Scottish History to 1832: Special period from 1371 to 1542. In the special period, candidates will be required to show satisfactory acquaintance with the original authorities to which their attention has been directed. In addition, the relative portions of Major's *Greater Britain* (Scottish History Society), Buchanan's *History*, and Bishop Leslie's *History* should be studied.

SCHOLARSHIPS in the Department of History, open 1919-20—*Kirkpatrick*, p. 284; *Vans Dunlop*, p. 293.

BURSARY, *Lanfine*, p. 309.

PUBLIC LAW.

PROFESSOR SIR LUDOVIC J. GRANT, BART.

This Course is divided into two Sections—(1) General Jurisprudence (Oct.-Dec.); (2) Public International Law (Jan.-Mar.), and the full Course qualifies for Graduation in Arts. *Vide* under Faculty of Law.

The Subjects of Examination in Public Law for the Ordinary Degree of M.A. are given under Faculty of Law.

ROMAN LAW.

PROFESSOR MACKINTOSH.

The full Course in Roman Law extends over three Terms. *Vide* Civil Law, under Faculty of Law.

It is advisable to take the complete Course, if time permits ; but attendance during two Terms qualifies for Graduation in Arts.

The Subjects of Examination in Roman Law for the Ordinary Degree of M.A. are as follows :—

(1) The history of the law from the foundation of Rome to the time of Justinian, and (2) a general knowledge of the principles and doctrines of the law. Gaius' *Institutes* and Muirhead's *Historical Introduction* are recommended for the historical part, and a knowledge of the Latin text of Justinian's *Institutes*, bks. i.-iv., tit. ix., is required for the doctrinal part.

MERCANTILE LAW.

HENRY AITKEN, K.C.

The Course in Mercantile Law extends over the Autumn and Spring Terms. *Vide* under Faculty of Law.

The Subjects of Examination in Mercantile Law for the Degree of M.A. with HONOURS IN ECONOMIC SCIENCE are given on page 200.

POST-GRADUATE COURSES IN THE DEPARTMENT OF HISTORY AND LAW.

The Courses detailed below may be classified as follows :—

1. Existing Courses, which are available for Post-Graduate Students : such students being expected to supplement these Courses by reading and research, under the direction of the Professors or Lecturers.

II. Special Courses for Post-Graduate Students, to be provided if a sufficient number of Candidates make application, and if the University Court approves of the proposed arrangements.

Graduates of this or other Universities who contemplate Post-Graduate Research should communicate with the Dean of the Faculty of Arts.

History.

I.

- The History of Europe from 1715 to 1815—Professor Sir Richard Lodge. Autumn and Spring Terms. (See p. 234.)
- Constitutional History from 1688—Professor Millar. Autumn and Spring Terms. (See p. 235.)
- The Reformation in the Sixteenth Century—Professor Mackinnon. Autumn and Spring Terms. (See p. 237.)
- Scottish History from 1371 to 1542, with reference to original authorities—Professor Hannay. Autumn and Spring Terms. (See p. 236.)
- Course on Palæography (connected with the above). Autumn and Spring Terms. (See p. 236.)
- Roman History from B.C. 60 to A.D. 14—Mr Giles. Autumn Term. (See p. 149.)
- Greek History, B.C. 490 to 429—Mr Giles. Summer Term. (See p. 149.)
- Political Science—Mr Heatley. Spring and Summer Terms. (See p. 242.)
- History of England to 1307—Mr Heatley. Autumn Term. (See p. 244.)
- History of England, 1485 to 1660—Mr Heatley. Summer Term. (See p. 244.)

II.

- British History in Monuments—Professor Baldwin Brown. 25 lectures.
- Great Treaties of the Nineteenth Century, 1815 to 1878—Professor Sir Richard Lodge. 20 lectures.
- Studies in the Development of the Constitution of the Church in the Second and Third Centuries—Professor Mackinnon.
- Studies in the History of the Reformation in the Sixteenth Century—Professor Mackinnon.
- The Conduct of Foreign Policy—Mr Heatley. 15 lectures.
- Parties and Party Organisation in England, 1673 to 1742—Mr Heatley. 15 lectures.
- English and French Political Thought in the Eighteenth Century—Mr Heatley. 15 lectures.
- The Manor from the Eleventh to the Sixteenth Century—Mr Rees. 25 lectures.

Geography.

In addition to Advanced Economic Geography, mentioned under Economics and Commerce (p. 235), the following Courses are suitable for Post-Graduate students:—

Economic Ethnography—Mr Chisholm. Autumn and Spring Terms
(See p. 229.)

History of Geography—Miss Lennie. Autumn Term. (See p. 227.)

Historical Geography—Miss Lennie. Spring Term. (See p. 228.)

For **Civil Law, Public Law, and Constitutional Law and Constitutional History**, see under Faculty of Law, pp. 522-525.

FEES FOR DEGREE OF M.A.

Candidates for the Ordinary Degree pay for each of the subjects of Astronomy, Chemistry, Zoology, Botany, or Geology, £1, 1s., and for each of the other subjects 15s.

Those who fail in the examinations pay 10s. 6d. for re-examination in each subject.

Candidates for the Degree with Honours pay the same total fees as for the Ordinary Degree.

DEGREE EXAMINATIONS, ETC.

Candidates are required to enter for each periodical Examination at which they desire to appear, and to state the subject or subjects in which they desire to be examined.¹

When names are not entered and fees paid, or a pass to the examination obtained where the fee has been previously paid, on or before the stated dates, an additional or late-entry fee of 10s. must be paid before the candidate can be admitted to examination. This fee will not be received after twelve o'clock of the last day but one preceding the examination for which the candidate desires to appear, without the express permission of the Dean of his Faculty and the subsequent sanction of the Senatus. A

¹ In entering for the Final M.A. Honours Examination in Mathematics and Natural Philosophy, candidates must state in which of the selected groups they intend to present themselves for examination.

candidate must enter his name and pay the fee, or, when the fee has been previously paid, obtain a pass, for each periodical examination at which he desires to appear.

Fees are required to be paid at the Matriculation Office, as follows:—

1. For the Examinations in Autumn, 1919, on 22nd and 23rd September.
(Office hours 10-1.)
2. For the Examinations in December, on 2nd December.
3. For the Examinations in Spring, 1920, on 27th and 28th February.
4. For the Honours Examinations in June 1920, on 1st June.
5. For the Ordinary Examinations in June 1920, on 2nd, 3rd, 4th, and 5th June.

If, after payment of the fee, a candidate withdraws or fails to be present at the examination, the fee will not be repaid, but the candidate will be allowed to enter on one subsequent occasion for examination in the same subject, without payment of any additional fee. A new form must in this case be filled up by the stated date.

Class Certificates must be shown before the day of examination. When the candidate has exhibited the Certificates, the clerk will stamp on the receipt for the fee the words, "certificates examined," which entitles the candidate to admission to the Examination Room.

Candidates re-entering for examination are not required to show certificates.

Candidates for examination or for graduation must be Matriculated Students of the Academic year.

The fees for Matriculation, Examinations for Degrees, and Registration of Graduates as Members of the General Council, are payable at the Matriculation Office, University. Candidates who cannot pay the fees personally, should transmit them to JAS. DOWIE, University, Edinburgh, by Money Orders or Postal Orders, or by Bank Drafts, crossed "Union Bank of Scotland (Hunter Square Branch), Edinburgh."

ENTRY FOR GRADUATION.

Every candidate for GRADUATION must produce certificates of having passed the necessary examinations, and pay the fee of £1 for Registration as a Member of the General Council. This should be done as soon as possible after examination results have been intimated; at latest, it must be *by 4 o'clock on the last day but one preceding the Graduation.*

Degrees are conferred by the Chancellor or the Vice-Chancellor of the University. They are not conferred *in absentia*, except on very special cause shown. Candidates must appear in Academic costume, with the appropriate hood.¹

GRADUATION CEREMONIALS.

SATURDAY	.	.	25th OCTOBER 1919.
FRIDAY	.	.	19th DECEMBER 1919.
FRIDAY	.	.	26th MARCH 1920.
THURSDAY	.	.	8th JULY 1920.

¹ Black silk lined with *white*.

TIME-TABLES FOR M.A. EXAMINATIONS, 1919-20.

Date.		M.A. Pass Examinations.	M.A. Honours Examinations. ¹
1919.			
Sept. 29	Mon.	French, 9-11, 2-4, 5-6 Latin, 11.30-1.30	
" 30	Tu.	Logic, 9-11 German, 11.30-1.30, 3-5, 5.30-7 Latin, 2-4	
Oct. 1	Wed.	Logic, 9-11 Mathematics, 12-2, 3-5	
" 2	Th.	History, 9-11, 12-2 Political Economy, ² 3-5	
" 3	Fri.	Roman Law, ² 9-11, 11.30-1.30 Political Economy, ² 3-5 Celtic, Sanskrit, Arabic, Hebrew, Scottish History, Ancient History, Ecclesiastical History, 9-11, 2-4 Botany, 10-12 Zoology, 2-4.30	
" 4	Sat.	Public Law, ² 9-11, 11.30-1.30 Constitutional Law and Constitutional History, ² 2-4	
" 6	Mon.	English, 9-11, 4.30-6.30 Constitutional Law and Constitutional History, ² 2-4 Greek, 11.30-1.30	

¹ The order of the papers set at the particular hours fixed for the general Honours subjects, within any department or group, may be varied at the discretion of the Examiners.

∴ It is impossible to avoid clashing between the hours of examinations in the Pass, Honours, and Scholarship subjects, and candidates should carefully consider early in their Curriculum the arrangements for these examinations, in order, so far as possible, to avoid clashing.

² In the examinations for the degree of M.A. in these subjects, candidates who intend to proceed later to the degree of LL.B. must pass on the LL.B. standard. In entering for examination they must *expressly state* that they appear on this standard.

Date.		M.A. Pass Examinations.	M.A. Honours Examination
1919.			
Oct. 7	Tu.	Greek, 9-11 Chemistry, 10-12 Psychology, 11.30-1.30, 4.30-6.30 Natural Philosophy, 2-4	
" 8	Wed.	Natural Philosophy, 9-11 Education, 11.30-1.30, 4.30-6.30 Moral Philosophy, 2-4	
" 9	Th.	Moral Philosophy, 9-11 Economic History, 11.30-1.30 Geography, 3-5	
" 10	Fri.	Economic History, 9-11 Geography, 3-5	
" 14	Tu.	ARTS CLASSES OPEN	
" 25	Sat.	GRADUATION CEREMONIAL at	10 A.M.
Dec. 8	Mon.	Geology, 3-5	
" 9	Tu.	Chemistry (Second Course), 9-12	
1920			
Mar. 12	Fri.		Classics (Latin Prose Composition), 9-12 Classics (Greek Unseen Translation), 2-5
" 13	Sat.		French (Prose Composition), 9-12 Classics (Greek Prose Composition), 9-12 Classics (Latin Unseen Translation), 2-5
" 15	Mon.	Constitutional Law and Constitutional History, ² 2-4 Ecclesiastical Hist., 10-12, 2-4	French (Essay), 9-12 German (Translation), 2-5 Classics Special Subjects (Greek Hist. I., Roman Hist. I., and Archæology I.), 2-5
" 16	Tu.	Public Law, ² 9-11, 11.30-1.30 Constitutional Law and Constitutional History, ² 2-4 Mercantile Law, ² 5-7	German (Essay), 9-12 German (Literature), 2-5 Classics Special Subjects (Greek Hist. II., Roman

¹ See footnote 1, page 253.² See footnote 2, page 253.

Date.		M.A. Pass Examinations.	M.A. Honours Examinations. ¹
1920.			
Mar. 16	Tu.	Hebrew, 10-12, 2-4 Sanskrit, 10-12, 2-4	Hist. II., Archæology II., Ancient Philos., Compar. Philol.), 9-12 Classics (General Greek and Roman History), 2-5
" 17	Wed.	Political Economy, ² 5-7	Classics (Greek Critical), 9-12 Classics (Latin Prescribed Books), 2-5 French (Unseen Transla- tion), 9-12 German (Old Texts), 2-5
" 18	Th.	Roman Law, ² 9-11, 11.30-1.30 Political Economy, ² 5-7	Classics (Latin Critical), 9-12 Classics (Greek Prescribed Books), 2-5 German (Prose), 9-12 French (Prescribed Books —Literature), 2-5
" 19	Fri.		French (Prescribed Books —Language), 2-5
" 26	Fri.	GRADUATION CEREMONIAL at	10 A.M.
June 5	Sat.	. . . . .	Metaphysics, 9-12, 2-5
" 7	Mon.	. . . . .	Moral Philosophy, 9-12, 2-5
" 8	Tu.	. . . . .	Psychology, 9-12, 2-5 Logic, 9-12 Ancient Philosophy, 2-5
" 9	Wed.	. . . . .	Mental Philosophy (Essay Paper), 9-12
" 10	Th.	. . . . .	History and Economic Science (Pol. Sc.), 9-12 Economic Science, 2-5 Final Nat. Phil. (Advanced Dynamics), 9-12 History (Const.), 2-5

¹ See footnote 1, page 258.² See footnote 2, page 258.

Date.		M.A. Pass Examinations.	M.A. Honours Examinations.
1920.			
June 11	Fri.	.	Economic Science, 9-12, 2-5 English (Lit.), 9-12, 2-5 History (Const.), 9-12, 2-5 Final Mathematics (1st paper), 9-12 Intermediate Nat. Phil. (Heat), 2-5
" 12	Sat.	.	Economic History, 9-12, 2-5 English (Lit.), 9-12, 2-5 Final Natural Philosophy (Electricity I.), 9-12 Hist. (European), 9-12, 2-5
" 14	Mon.	Fine Art, 9-11, 2-4 French, 11.30-1.30	Economic History, 9-12 Economic Science (Optional Subjects), 2-5 English (Lit. and Lang.), 9-12, 2-5 History (British), 9-12, 2-5 Final Mathematics (2nd paper), 9-12 Intermediate Nat. Phil. (Anal. Dynamics), 2-5
" 15	Tu.	French, 9-11, 2-3 Greek, 11.30-1.30, 3.30-5.30 German, 4-6	English (Lang.), 9-12, 2-5 Eccles. Hist., 9-12, 2-5 Final Natural Philosophy (Electricity II.), 9-12
" 16	Wed.	German, 9-11, 12-1 History, 3-5	History of Art, 9-12, 2-5 Scottish History, 9-12, 2-5 Final Mathematics (3rd paper), 9-12 Intermediate Nat. Phil. (Electricity), 2-5
" 17	Th.	Latin, 9-11 Logic, 12-2 History, 3-5	Final Natural Philosophy (Quaternions), 9-12 Final Mathematics (4th paper), 2-5

¹ See footnote 1, page 258.

TIME-TABLES FOR M.A. EXAMINATIONS

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Date.		M.A. Pass Examinations.	M.A. Honours Examinations. ¹
1920.			
June 18	Fri.	Latin, 9-11 Celtic, 12-2 Geology, 12-2 Arabic, 12-2 Logic, 3-5	Final Mathematics (5th paper), 9-12 Final Natural Philosophy (General Physics), 2-5
" 19	Sat.	Psychology, 9-11 Geography, 12-2 Moral Philosophy, 3-5	
" 21	Mon.	Psychology, 9-11 Celtic, 11.30-1.30 Arabic, 11.30-1.30 Moral Philosophy, 2-4 Geography, 4.30-6.30	Final Natural Philosophy (Phys. Optics), 2-5
" 22	Tu.	English, 9-11 Natural Philosophy, 12-2 Education, 3-5	
" 23	Wed.	English, 9-11 Mathematics, 12-2 Education, 3-5	
" 24	Th.	Natural Philosophy, 9-11 Mathematics, 12-2 Economic Hist., 3-5 Scottish History, 3-5 Colonial and Indian Hist., 3-5	
" 25	Fri.	Ancient History, 9-11, 12-2 Economic History, 3-5 Scottish History, 3-5 Colonial and Indian Hist., 3-5	
" 26	Sat.	Astronomy, 9-11, 2-5	
" 28	Mon.	Chemistry, 9-11	
" 29	Tu.	Botany, 9-11 Zoology, 3-5.30	
July 8	Th.	{ GRADUATION CEREMONIAL at 10 A.M. COMMEMORATION SERVICE at 12 noon.	

¹ See footnote 1, page 253.

Time-tables of Examinations for the DEGREE AND DIPLOMA IN EDUCATION are given on page 264.

REGULATIONS FOR THE DEGREE OF BACHELOR OF EDUCATION,¹ AND FOR THE UNIVERSITY DIPLOMA IN EDUCATION.

General.

A Degree of Bachelor of Education is conferred by the University.

The Examination for the Degree of Bachelor of Education is divided into two divisions or parts, viz.—(1) a First (or Diploma) Examination; and (2) a Final (or Degree) Examination.

A University Diploma in Education is awarded to candidates who successfully complete the Course, and pass the examinations, necessary for the first (or Diploma) stage of the curriculum laid down for the Degree of Bachelor of Education.

Every candidate for the Degree of Bachelor of Education must be a Graduate in Arts or Science of this or any Scottish University, or have obtained a like Degree (or University Certificate recognised by the University Court as equivalent to a Degree)² in some other University approved for this purpose by the University Court on the recommendation of the Senatus.

The Course of study for the Degree of Bachelor of Education shall extend over not less than two academical years, . . . and such years shall be in addition to the minimum number of years prescribed for a Degree in Arts or in Science (pure or applied).

A. Regulations for the First (or Diploma) Course and Examination.

Before being allowed to enter for the First Examination every candidate must produce evidence³ that he has attended a Course of Professional Training at a recognised Training Centre or College, and that he has attained therein to a satisfactory standard of proficiency as a teacher; or, in lieu thereof, that he

¹ For the full text of Ordinance regulating the award of the Degree of Bachelor of Education, see UNIVERSITY CALENDAR, 1917-18, p. 799.

² Women who have been placed in the Class lists of any of the Final Honours examinations in the University of Oxford, or in the University of Cambridge, shall be deemed to be Graduates for the purpose of the Degree in Education.

³ Such evidence must be produced when the Candidate enters for the subject of Education.

has taught with success for not less than three years in one or more Schools or Educational Institutions approved for this purpose by the University Court after consultation with the Senatus.

1. Candidates who enter for this Examination must have attended the following *University Courses of Study* :—

- (a) The Ordinary Course in Psychology.
- (b) The Course in the Theory and History of Education.
- (c) The Course in Modern Educational Systems and Problems.

A candidate shall not be deemed to have attended a Class as part of the curriculum for the First (or Diploma) Course who does not present a Certificate bearing, not only that he has given regular attendance, but also that he has duly performed the work of the Class.

Candidates who have included Course (a) (Psychology) in their Curriculum for graduation in Arts will be exempted from taking that part of the Diploma Course.

Courses (b) and (c) must be taken by candidates in addition to their subjects for graduation in Arts or Science, *and not earlier than in their fourth year of University study*. Candidates who have already taken Course (b) (Education) as a subject for the Degree of Master of Arts will be required to take an additional Arts Course not earlier than in their fourth year.

2. Candidates for the First (or Diploma) Examination will be further required to pass in the subjects of their Diploma Course on a higher standard than that required for the ordinary M.A. Degree, to be approved by the University Court.

3. Candidates shall pay to the University for their First (or Diploma) Course a fee of £10, 10s., but students who have already included Psychology in their Arts Curriculum shall pay £6, 6s. The fee for examination in all the subjects of University study for the Diploma shall be £2, 2s., payable on first entry. The Fee for re-examination, in one or both of the subjects, is £1, 1s.

4. Candidates must be matriculated students in the year in which they present themselves for the examination, or for any part of the examination.

5. Candidates will not be entitled to receive the Diploma unless they have already graduated in Arts or Science, or unless they are so graduating at the same time as they are qualified for the Diploma.

EXAMINATIONS FOR THE FIRST (OR DIPLOMA) COURSE

Psychology.

1. Two papers will be set. The papers will be the same as for the Ordinary Pass Degree in Arts, but special questions may be set to be answered by Diploma candidates only.
2. Candidates for the Diploma must enter their names and pay the Diploma fee before the date of the examination. (See below.)
3. A candidate who attains the Ordinary Pass Degree standard in the examination, but fails to reach the standard for the Diploma, may enter again for the latter examination; but such entry may not be repeated.

Education.

1. Three papers will be set, each of three hours' duration. The first paper will contain questions on the Theory of Education; the second, questions on the History of Education; the third, questions on Present Day Problems in Education. The subjects of examination in the Theory and History of Education will meanwhile be the same as for the Pass Degree in Arts (see p. 201), but separate papers will be set. The subjects in the third paper will be those dealt with in the Class on Modern Educational Systems and Problems (see p. 202).
2. Every candidate must, in order to pass, obtain a satisfactory percentage of the total marks assigned for the first and second papers.
3. A candidate may enter only once for this part of the Diploma Examination.¹

For Dates of Examinations, see p. 264. Names to be entered by 5th June 1920.

¹ On good cause shown, the Senatus may allow a candidate to enter a second time.

B. Regulations for the Final Course and Examination for the Degree of Bachelor of Education.

1. Candidates who enter for the Final Examination must, in addition to attendance on the Courses for the First Examination,¹ have attended the following Courses of Study, viz. :—

- (a) The University Course in Advanced Psychology.
- (b) The University Course in Advanced Theory and History of Education.
- (c) The Provincial Training College Advanced Course in Experimental Education.
- (d) The Provincial Training College Course in the Administration and Organisation of Primary and Secondary Schools.

All the above-named Courses, unless in cases where (a) (Advanced Psychology) has been taken as a subject in the Honours Group of Mental Philosophy, *must be taken by candidates not earlier than in their fifth year of University study, must be in addition to their subjects for graduation in Arts or Science, and must be taken after graduating in Arts or Science.*

A candidate shall not be deemed to have attended a class as part of the curriculum for the Final (or Degree) Course who does not present a Certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the Class.

2. The subjects for the Final Examination must be taken together, and not separately, and the standard of Examination shall be, as nearly as possible, equivalent to that of a Degree of Master of Arts with Honours in subjects of a corresponding character.

¹ A candidate who has obtained a Diploma in Education in this or in any other University, under conditions that are, in the opinion of the Senatus, substantially equivalent to those prescribed, may be exempted by the Senatus from attendance on any or all the Courses required for the First (or Diploma) part of the Examination, and from passing the whole or any part of the First Examination.

3. Distinction may be awarded to candidates who have displayed exceptional merit in Psychology, or Education (including Experimental Education), or both, in their Examination.

4. For the Degree of Bachelor of Education a certificate is granted, setting forth the subjects in which the candidate has been examined, and the distinction (if any) he has attained.

5. Candidates for Examination or Graduation must matriculate for the year.

6. Candidates may enter only once for the Final Examination.

7. The fee for the Final (or Degree) Course shall be £15, 15s., but students who have already included Advanced Psychology in their Mental Philosophy Honours Group shall pay £11, 11s. The fee for the Final Examination shall be £4, 4s.

8. For Dates of Examination, see p. 264. Names to be entered by 1st June 1920.

FINAL EXAMINATIONS FOR THE DEGREE OF BACHELOR OF EDUCATION.

Advanced Psychology.

Two papers, each of three hours' duration, will be set. The subjects of Examination are the same as those set for Honours in Mental Philosophy (see p. 191).

Advanced Education.

Two papers will be set, each of three hours' duration. One paper will deal wholly with the special books prescribed. (For Subjects of Examination, see p. 201.)

Advanced Experimental Education.

One paper of three hours' duration will be set. In addition, each candidate will be examined both orally and practically. (For Subjects of Written and Practical Examination, see p. 202.)

Administration and Organisation of Primary and Secondary Education.

One paper of three hours' duration will be set. (For Subjects of Examination, see p. 204.)

SUBJECTS FOR FINAL EXAMINATION FOR DEGREE OF
BACHELOR OF EDUCATION.*Advanced Psychology.*

Subjects the same as for Honours in Mental Philosophy, see p. 191.

Advanced Education.

A general knowledge of the Theory and History of Education in early Greek and Roman times; and of the development of theory in Western Europe from the end of the 17th century onwards.

A special knowledge of the following books :—Plato's *Republic*, bk. ii., 366, to end of bk. iv. and bk. vi., 505, to end of bk. vii.; Aristotle's *Ethics and Politics* (selections as given in Professor Burnet's *Aristotle on Education*); Herbart's *Science of Education*; Froebel's *Education of Man*; Herbert Spencer's *Education*; and Cardinal Newman's *Idea of a University*.

During the session 1918-19 a special study will be made of Herbart's *Psychology and Theory of Education*. Students are recommended to consult Davidson's *A New Interpretation of Herbart's Psychology*; and Darroch's *Herbart and the Herbartian Theory of Education*.

Advanced Experimental Education.

The written examination will cover, in addition to the Class lectures, the topics discussed in the following works :—Rusk, *Introduction to Experimental Education*; Whipple, *Manual of Mental and Physical Tests*; Thorndike, *Educational Psychology*, Vols. II. and III.; Huey, *Psychology and Pedagogy of Reading*.

Candidates will also be expected to show some acquaintance with the recent literature of the subject.

As a practical test, candidates will be expected to sketch in some detail the method they would adopt to study experimentally an educational problem suggested by the examiners. They will also be required to submit full notes of at least one experimental study carried out by them, either in an educational laboratory or in a school.

Administration and Organisation of Education in Primary and Secondary Schools.

The Class lectures and the Practical Part of the Course connected with visits to schools. A special knowledge of the subjects discussed in Strong's *History of Secondary Education in Scotland*, chaps. V. to XI., and chap. XV.: De Garmo's *Principles of Secondary Education*, Part I., chaps. I., II., and V.

Dates of Examinations for Diploma in Education and Degree of Bachelor of Education.

1919. FIRST (OR DIPLOMA) EXAMINATION.

Sept. 23. Tues. Entries to be made by this date.

Oct. 7. Tues. Psychology,¹ 11.30-1.30: 4.30-6.30.

1920.

June 5. Sat. Entries to be made by this date.

" 21. Mon. Psychology,¹ 9-11.

" 22. Tues. Education, 10-1: 3-6.

" 23. Wed. Education, 10-1.

FINAL (OR DEGREE) EXAMINATION.

June 5. Mon. Entries to be made by this date.

" 15. Mon. Psychology, 9-12: 3-6.

" 16. Tues. Education, 9-12: 3-6.

" 17. Wed. Experimental Education, 9-12.

" " Administration and Organisation of Schools, 3-6.

Practical Examination in Experimental Education on dates to be arranged.

REGULATIONS FOR THE DEGREE OF BACHELOR OF COMMERCE (B.Com.).

[Ordinance No. 22 of the University Court of the University of Edinburgh.]

I. A Degree in Commerce is conferred^d by the University of Edinburgh, viz., Bachelor of Commerce (B.Com.).

II. For the purpose of advising the University Authorities on matters connected with the said Degree, the Court have formed

¹ Candidates taking the M.A. Examination in Psychology must, on entering, intimate if they desire this also to count for the Diploma, and must pay the full fee for the Diploma.

an Advisory Committee of persons experienced in Commerce or Industry, called the Advisory Committee in Commerce.

III. Subject to the provisions of the Ordinance, Regulations shall from time to time be prescribed by the Senatus, with the approval of the University Court, for graduation in Commerce, and these Regulations shall be administered by the Faculty of Arts, until the institution of a Faculty of Commerce as hereinafter provided, with the assistance of a Board of Studies in Commerce. The said Board of Studies shall consist of such members of the Senatus and Lecturers in the University, and of such members, not exceeding five in number, of the Advisory Committee, as the Senatus may from time to time select, and the Senatus shall appoint one of the members of the Board to be Convener thereof.

IV. If it should at any time hereafter be deemed expedient, it shall be in the power of the University Court, after consultation with the Senatus, to create a Faculty of Commerce, and to regulate the constitution thereof as regards composition and powers.

Preliminary Examination.¹

V. Before entering on the Curriculum, each student shall pass either (a) the Preliminary Examination for Arts for the time being, or (b) the Preliminary Examination for Pure Science for the time being, or shall hold a qualification which is now or may hereafter be recognised as exempting from such examinations for the purposes of this Degree.

VI. Students may attend any classes without having passed the Preliminary Examination within the meaning of this Ordinance, but such attendance shall not qualify for graduation. The Senatus may, however, on special cause shown, permit a student who has not passed the Preliminary Examination to attend a class and count it for graduation, on condition of his passing the Preliminary Examination within such time thereafter as the Senatus may from time to time determine; and in every such case the Senatus shall make a report to the University Court, setting forth the reasons for the relaxation.

¹ For various exemptions, and detailed regulations, see pp. 87 to 106.

VII. Attendance on a class in any language shall not qualify for graduation unless the candidate, before entering the class, shall either have passed the Preliminary Examination in that subject, or have passed an examination in that language on a standard as nearly as possible equivalent to the standard of the modern languages included in the Preliminary Examination.

**Courses Qualifying for the Degree, and
Subjects of Examination.**

VIII. The course of study for the Degree in Commerce shall extend over not less than three academical years.

IX. Candidates for the Degree in Commerce who have taken or shall concurrently take the Degree of Master of Arts shall not count more than three full courses or their equivalent as common to the two degrees.

X. (1) The Curriculum of classes qualifying for the Degree shall comprise the equivalent of not less than seven full courses, as set out in the following section, where the courses marked with an asterisk do not extend over the whole academical year, and two of them are to be reckoned as equivalent to one full course.

(2) A full course shall consist of not less than seventy-five meetings of the whole class on separate days, with additional meetings for tutorial or other supplementary instruction where such is provided; but the Senatus, with the approval of the University Court, may, in special cases, having regard to the nature of the subject, sanction full courses of less than seventy-five meetings of the whole class.

(3) Where a subject is taught in a practical class, as well as in a systematic class, the Senatus, with the approval of the University Court, shall regulate the course of study and determine the relative proportion of lectures and laboratory or practical work.

(4) A candidate for the Degree of Bachelor of Commerce shall not be deemed to have attended a class as part of the Curriculum for that Degree who does not present a certificate bearing, not only that he has given regular attendance, but also that he has duly performed the work of the class.

XI. Group A. The courses in this group shall be taken by all candidates :—

- Political Economy (Economics I.).
- *Organisation of Industry and Commerce I.
- *Accounting and Business Method.¹
- *Mercantile Law I.
- *Economic Geography I.
- *Economic History.

And one Modern Language as defined in B (1).

Group B. In this group not more than two courses shall be taken.

- (1) Modern Languages, in which graduation courses are given :—

French.
German.
Italian.
Spanish.
Russian.

One full course in a Modern Language shall be compulsory. English may be substituted by students whose native language is other than English.

- (2) Sciences of Industrial or Commercial importance —

Engineering, including practical work.
Chemistry, do. do.
Physics, do. do.

Not more than one of these may be taken. Candidates who do not take one may take either a second Modern Language or additional subjects in Group C.

In special circumstances, and subject to the approval of the Senatus, Mathematics may be taken as a subject in B (2).

Group C. Other qualifying subjects. As many courses are to be selected from this Group as will bring the total up to the equivalent of seven full courses :—

- Economics II. { *Realistic Economics.
- { *Finance.
- *Organisation of Industry and Commerce II.
- *Mercantile Law II.

¹ See also under Group C on page 270.

*Economic Geography II.

*Imperial and Colonial History from 1783.

*Statistics and Mathematical Economics.

*Banking.

*Public International Law.

*Industrial Law.

XII. The Senatus, with the approval of the University Court, may make additions to or modifications in the above courses of study, or their grouping, provided always that the University Court shall communicate to the General Council all such additions or modifications, and any representations made thereon by the General Council, within two months from the date of such communication, shall be taken into account by the University Court, before such additions or modifications be approved.

XIII. The courses of study selected shall in every case be subject to the approval of the appointed Adviser of Studies.

XIV. A student who has given attendance at classes recognised as qualifying for graduation in Commerce during one or more academical years in any one or more of the other Scottish Universities, may complete his Curriculum by giving attendance during the remainder of his Curriculum in the University of Edinburgh, and may proceed to a Degree in that University, in the same way, in all respects, as if the previous part of his Curriculum had been taken therein: Provided always that no such student shall be admitted to a degree in the University of Edinburgh unless he has attended qualifying classes therein during the whole of the last academical year of his Curriculum. The Degree Examination in any subject of the Curriculum of such a student may be passed either in the University in which he attended a qualifying class in such subject or in the University of Edinburgh. Further, the Senatus may accept, under such conditions as they may from time to time prescribe, attendance at other Universities specially recognised by the University Court, and the examinations passed therein, provided always that every student whose attendance or examinations are thus accepted shall attend qualifying classes for at least two academical years in the University of Edinburgh, and shall pass the examinations of that University in the subjects studied therein.

XV. The standards and the mode of conducting the examinations, and the order and number of presentations for examination, shall, subject to the provisions of this Ordinance, be determined from time to time by the Senatus with the approval of the University Court.

XVI. The Examiners shall be Professors or Lecturers in the University who conduct qualifying courses in the subjects of the Curriculum, together with such additional Examiners as may be appointed by the University Court. Professors or Lecturers or Assistants in any other Scottish University shall be eligible for appointment as additional Examiners, but no Professors or Lecturers or Assistants in the University of Edinburgh shall be so eligible.

XVII. The Senatus, with the approval of the University Court, shall have power to exempt from attendance on or examination in not more than three full courses of the Curriculum or the equivalent thereof, a candidate who produces satisfactory evidence that he has undergone sufficient training or examination outside the University in the subject or subjects of such courses.

XVIII., XIX. Fees—see next page.

XX. A candidate who produces certificates that he has satisfied all the conditions prescribed by this Ordinance, that he has passed the examinations in the subjects of his curriculum, and that he has paid the required fees, shall be entitled to be admitted to the Degree of Bachelor of Commerce, and shall receive a Diploma setting forth the subjects in which he has passed.

XXI. The Degree of Bachelor of Commerce shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*; but the Senatus shall have power to admit (*ad eundem gradum*) to the Degree of Bachelor of Commerce any person who has already received that Degree from another University recognised by the University Court, and who has been appointed to an academic office in the University of Edinburgh.

**Intending Students should consult the Official Adviser,
Mr W. H. MYLES, M.A.**

Examination Fees, Etc.

The Fee payable for the B.Com. Degree is £5, 5s.

For each full subject the Fee is 15s.

Candidates who fail in the Examinations pay a Fee of 10s. 6d. for re-appearance in each subject.

For Examination Dates and Entry Arrangements, see pp. 251 to 257.

Qualifying Courses.

Group A.

Political Economy (Economics I.)—Ordinary Graduation Course in Arts.

Organisation of Industry and Commerce I.—Details to be announced later.

Accounting and Business Method.—Details to be announced later.

Mercantile Law I.—Half-Course up to Christmas (see p. 238).

Economic Geography I.—Ordinary Course from 17th Feb. (see p. 224).

Economic History I.—The Ordinary Graduation Course in Arts from 17th Feb. (see p. 194).

Group B.

(1) MODERN LANGUAGES.—*French, German, Italian, Spanish, Russian, and English.*

For the B.Com. special questions will be set in the Degree Examinations, as alternative to some of the M.A. Degree Questions.

Preliminary, as well as Qualifying Courses are given in Italian, Spanish, and Russian (see pp. 179 to 182).

(2) SCIENCES OF INDUSTRIAL OR COMMERCIAL IMPORTANCE.—*Engineering, Chemistry, Physics, and Mathematics.*

Note.—In this group, students should consult the Professors or Lecturers in the respective subjects.

Group C.

Economics II.—Parts of the Honours Course in Economics, with alternative lectures in other parts. Details later.

Organisation of Industry and Commerce II.—Details to be announced later.

Accounting and Business Method II.

Mercantile Law II.—Half-Course after Christmas (see p. 238).

Economic Geography II. (see p. 225).

Imperial and Colonial History from 1783 (see p. 240).

Statistics and Mathematical Economics (see p. 197).

Banking (see p. 272).

Public International Law.—Second half of Course in Public Law.

Industrial Law.—Special Course in Summer Term (see p. 271).

ITALIAN.

ERNESTO GRILLO, M.A., D.Litt., LL.D., *Lecturer.*

Graduation Course.—See p. 179.

Elementary Course.—See p. 180.

SPANISH.

B. SANIN CANO, M.A., *Lecturer.*

Graduation Course.—See p. 180.

Elementary Course.—See p. 181.

RUSSIAN.

HUGH G. BRENNAN, M.A., *Lecturer.*

Graduation Course.—See p. 181.

Elementary Course.—See p. 182.

* * Entrance Fee of 5s. payable by non-matriculated students in respect of each of the Elementary Courses.

INDUSTRIAL LAW.

HENRY AITKEN, K.C., *Lecturer.*

A Course of Forty Lectures on this subject will be delivered during the Summer Term of 1920.

The Lectures will be delivered on five days a week at 5 P.M.

Attendance on these Lectures qualifies for Graduation in Commerce to the extent explained in the Regulations.

The Lectures will deal with—(1) The Law of Master and Servant, including Employer's Liability for Accidents at Common Law and under the Employers Liability and Workmen's Compensation Acts; (2) the various Statutes regulating Industry, and dealing with other cognate matters, such as Trade Unions, Friendly Societies, National Insurance, and the like. These will be considered in their relation to present-day questions.

Books of Reference.—Tillyard's *Industrial Law*; Fraser's *Master and Servant*; Manley Smith's *Master and Servant*; Glegg on *Reparation*; Umpherston's *Workmen's Compensation Act*; Hutchin's and Harrison's *History of Factory Legislation*; Webb's *History of Trade Unionism*; Lecky's *Democracy and Liberty*; Webb's *Industrial Democracy*.

BANKING.

ALLAN M'NEIL, S.S.C., *Lecturer.*

The Class meets on Tuesdays and Fridays at 5 o'clock.

1. *History of Banking.*—Early Banking Systems—Banking in Mediæval Europe—Banking in England in the time of Cromwell—Foundation of the Bank of England—The Bank of Scotland—Private Banks—Joint Stock Banks—Monetary Crises—Historic Panics—The Savings Bank: its rise and development.

2. *Principles of Banking.*—With reference to Banking Systems of the British Dominions, the United States, France, and Germany.

3. *The Practice of Banking.*—Functions of a Bank—Branch Bank—Powers of a Bank and its Officials—Currency—Banks of Issue and Note Issue—Bank Books—Bank Accounts—Clearing House—Banker and Customer, their mutual relation and obligation—Special Customers—Banker as Custodian—Banker's Lien—Bills of Exchange, Cheques and Promissory Notes—Banker as Collector of Bills and Cheques—Negotiable Securities—Securities for Advances—Letters of Credit and Circular Notes.

The following books are recommended. — *The History, Principles, and Practice of Banking*, by J. W. Gilbart; *The One Pound Note in the History of Banking in Great Britain*, by William Graham; Conant's *History of Modern Banks of Issue*; Kerr's *History of Banking in Scotland*; Wallace and M'Neil's *Banking Law*.

REGULATIONS FOR THE UNIVERSITY DIPLOMA IN GEOGRAPHY.

1. Candidates for the Diploma must have graduated in Arts or Science at Edinburgh, or some other recognised University, or must be qualified to graduate at the same time as the Diploma is conferred.

2. The Diploma shall not be awarded earlier than the conclusion of the candidate's fourth year of University study after completing the Preliminary Examination.

3. Candidates must have included in the curriculum for the Degree, in addition to Geography :—

- (1) *Geology, or Mathematics with practical work in Map projections, or Natural Philosophy.*
- (2) *History or Political Economy.*
- (3) Any one of the foregoing five subjects, not already taken under (1) or (2).

If they have not done so, they must attend such courses and pass examinations in these subjects up to the Degree standard.

4. Candidates must also take :—

- (1) The full Honours Course in Economic Geography.
- (2) One of the following half courses :—
 - (a) Historical Geography.
 - (b) The History of Geography.
 - (c) Economic Ethnography II. as defined below.
- (3) A half course in Surveying in the Engineering Department.

5. Candidates will also be required to take :—

Either a course in Geodetic Surveying,

Or two of the following half courses not already taken under the preceding regulation :—

- (1) Historical Geography.
- (2) History of Geography.
- (3) Economic Ethnography I.
- (4) Economic Ethnography II.
- (5) Statistics.

Economic Ethnography is defined as embracing the study of the influence of geographical environment on the life of the most important peoples, but giving prominence also to questions connected with labour power and purchasing power, in case of non-European races both before and after contact with European races, and questions connected with standards of living as affected by geographical conditions : I. in pre-railway times from the period of the great maritime discoveries ; II. in more recent times.

6. The subjects of examination shall be as follows :—

- 1. Economic Geography : two papers of 3 hours each.
- 2. One of the following :—

<ul style="list-style-type: none"> (a) Historical Geography, (b) History of Geography, (c) Economic Ethnography II., 	}	One paper of 3 hours.
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- 3. Elementary Surveying.

4. *Either (A) Geodetic Surveying ;**Or (B) Two of the following not already taken under 2 :—*

Historical Geography,	} One paper of
History of Geography,	
Economic Ethnography I.,	
Economic Ethnography II.,	
Statistics,	
	3 hours
	in each of
	the subjects
	offered.

Candidates will be permitted to offer more of the optional subjects required for the Diploma, and a pass in such additional subjects will be entered on the successful candidate's Diploma.

7. The Senatus, with the approval of the University Court, may make additions to or modifications in the above Regulations, provided always that the University Court shall communicate to the General Council all such additions or modifications ; and any representations made thereon by the General Council, within two months from the date of such communication, shall be taken into account by the University Court before such additions or modifications be approved.

REGULATIONS FOR THE UNIVERSITY DIPLOMA IN ACTUARIAL MATHEMATICS.

1. The diploma shall be granted to persons who have previously been admitted as students of the Faculty of Actuaries in Scotland, and who have attended the courses, passed the examinations, and fulfilled the other conditions stated below.

Preliminary Examination.

2. Before entering on the curriculum each student shall be required to have such preliminary qualifications as are required of students who propose to study for degrees in Pure Science in the University ; provided, however, that students whose attendance at courses for the Diploma in Actuarial Mathematics is commenced before 1st October 1922, shall only be required to have passed either :—

- (a) Mathematics on the higher grade in the examination for the Leaving Certificate of the Scotch Education Department ; or
- (b) Mathematics on the higher standard in the Preliminary or Entrance Examination of the Scottish Universities ; or
- (c) One of the examinations or certificates recognised by the Entrance Board of the Scottish Universities or any equivalent authority as exempting from (b).

Courses Qualifying for the Diploma, and Subjects of Examination.

3. The course of study for the diploma shall extend over not less than two academical years. Candidates must matriculate as students of the University in each year of study.

4A. All candidates must take courses, extending over not less than four terms, in the Mathematical Department of the University, in subjects comprised in the following schedule :—

Aids to calculation (use of tables of products, reciprocals, quarter-squares, logarithms, Gaussian logarithms, slide-rules, arithmometers).

Permutations and combinations. The binomial theorem. The progressions. Arithmetic-Geometric series. Summation by differences. Sums of like powers. Partial Fractions.

Co-ordinates : linear, circular, parabolic, and elliptic graphs. Graphical interpolation. Transformation of co-ordinates. Degree of equations and of curves.

Solution of algebraic and transcendental equations by arithmetical and graphical methods. Solution of systems of linear equations ; use and numerical computation of determinants.

Idea of a limit and of an infinite series. Evaluation of limiting forms. The exponential and logarithmic series. Elementary theory of convergence of series.

Theory of finite differences. Interpolation formulæ. Interpolation with unequal intervals. Interpolation in tables of double entry. Calculus of operations. Construction of mathematical tables, illustrated by construction of tables of logarithms, compound interest tables, etc. Subtabulation, Controls.

Differentiation : fundamental rules, differential coefficients of elementary functions. Determination of a differential coefficient from a difference table. Differentiation of implicit functions, successive differentiation, change of independent variable in differential coefficients, Leibniz's theorem, maxima and minima, curvature, points of inflexion.

Taylor's theorem. Series for the sine, cosine, etc. Method of undetermined coefficients for the determination of series. Formation of expansions by algebraic methods (reversion of series, etc.). The Bernoullian numbers.

Methods for the summation of slowly-converging series.

Partial and total differentiation. Differentiation of a function of functions. Change of variables in partial differential coefficients

The integral as the limit of a sum. Integration as the converse of differentiation. Fundamental rules of integration. Integration of rational functions, irrational functions and trigonometric functions. Integration by parts. Formulæ of reduction. Application of integral calculus to the determination of areas and centres of gravity. Simpson's and other approximate rules.

Definite integrals: the error-function and the gamma-function. Double integrals.

Mathematical theory of probability: curves of frequency.

Integration of simple difference-equations and differential equations.

The Euler-Maclaurin formula and its application to the computation of sums and integrals. Other formulæ of summation and quadrature. Lubbock's and Woolhouse's formulæ.

4B. All candidates must take courses, delivered by a lecturer appointed by the Council of the Faculty of Actuaries and recognised by the University Court, extending over not less than two terms, in the subjects comprised in the following schedule:—

Theory of interest and annuities-certain.

The mortality table, probabilities of life and survivorship.

Elements of theory of life contingencies and formulæ of summation and interpolation, including application of the calculi to problems involving interest or mortality or both.

5. A candidate shall not be deemed to have attended a class as part of the curriculum who does not present a certificate bearing, not only that he has given regular attendance, but also that he has duly performed the work of the class.

6. The University shall have power to recognise courses taken in other Universities as qualifying for admission to the diploma examination.

7. There shall be one examination for the diploma in each year.

8. The examiners shall be three in number. One shall be the University teacher in the subjects specified in Section 4A above, the second shall be the recognised lecturer of the Faculty of Actuaries in the subjects specified in Section 4B above, and the third shall be an external examiner who shall be an actuary nominated by the Faculty of Actuaries and appointed by the University Court.

9. Candidates may present themselves for examination more than once.

10. A candidate after having received the diploma may proceed to a post-diploma course in the Theory of Curve-Fitting and Correlation, or to such other post-diploma courses in Actuarial Mathematics as may hereafter be instituted; and his performance in respect of such post-diploma courses shall be endorsed on his diploma.

REGULATIONS FOR DIPLOMA IN ACTUARIAL MATHEMATICS 277

11. The Senatus, with the approval of the University Court and of the Council of the Faculty of Actuaries, may make additions to or modifications in the above regulations, provided always that the University Court shall communicate to the General Council all such additions or modifications, other than alterations in the schedules of Sections 4A and 4B above; and any representations made thereon by the General Council, within two months from the date of such communication, shall be taken into account by the University Court before such additions or modifications be approved.

For *Courses for the Diploma in Actuarial Mathematics*, see the list of classes in Mathematics on pages 207 to 209.

Students who propose to attend courses for the diploma are requested, before the date of the first lecture (14th October), to communicate with the Professor of Mathematics, Professor E. T. Whittaker, F.R.S., 35 George Square, who acts as official adviser.

FELLOWSHIPS, SCHOLARSHIPS, BURSARIES, PRIZES, ETC.

I. Fellowships, Scholarships, Endowments for Research, etc.

(ARRANGED ALPHABETICALLY.)

Note.—The values of the Fellowships, Scholarships, etc., are stated *approximately*: the accuracy of the figures is not guaranteed.

Candidates for the Fellowships and Scholarships must enter their names with the Clerk of Senatus as follows: ¹—

For those open in Spring, not later than 1st March.			
" "	Summer,	"	1st June.
" "	Autumn,	"	13th September.

In the case of Scholarships, etc., the award of which has been deferred, preference will be given to candidates who were qualified at the time when, in ordinary course, the award would have been made. A period of War Service will not be counted in reckoning qualification.

ARNOTT (NEIL) SCHOLARSHIP FOR EXPERIMENTAL PHYSICS.

This Scholarship, value about £59, was founded in 1874, and is awarded annually to the most distinguished Student in the Physical Laboratory of the University.

The recipient must, during the ensuing Summer and Winter Sessions, assist the Professor of Natural Philosophy in the Laboratory. Failing a Student deemed by the Professor worthy of the Scholarship, it may be given to the Candidate for a Degree in Arts who has undergone the Examination in Natural Philosophy with most distinction. *See* Deed of Foundation, at p. 340 of CALENDAR for 1875-76.

1918, ADOLPHINE E. M. M. DALLAS, M.A.
1919, HENRIETTA A. PYPER, M.A.

BAXTER (SIR DAVID) MATHEMATICAL SCHOLARSHIP.

This Scholarship, founded by Sir David Baxter, Bart., of Kilmaron, is of the annual value of about £72, and is tenable for four years. By the terms of the Deed of Foundation (given in the CALENDAR for 1864-65, p. 171) it is awarded for proficiency in the department of

¹ The Senatus reserve power to relax this Regulation in cases where they are satisfied that *very special cause* has been shown.

Mathematics, particularly in that branch of it which includes mechanical and physical science. Competitors must be Graduates in Arts of the University, of not more than four years' standing at the time of the competition, who have taken Honours in the department of Mathematics and Natural Philosophy. The Scholarship is not tenable along with any other scholarship, fellowship, or bursary of any Scottish University, or with any situation or appointment of any kind yielding an annual income of £100. The next competition may take place in June 1920.

BAXTER (SIR DAVID) PHILOSOPHICAL SCHOLARSHIP.

This Scholarship, also founded by Sir David Baxter, Bart., of Kilmaron, is of the annual value of about £72, and is tenable for four years. By the terms of the Deed of Foundation (given in the *CALENDAR* for 1864-65, p. 171), it is awarded for proficiency in the Department of Mental Philosophy. Competitors must be Graduates in Arts of the University, of not more than four years' standing at the time of the competition, who have taken Honours in the department of Mental Philosophy. The subjects of examination are Logic, Metaphysics, and Moral Philosophy. The Scholarship is not tenable along with any other scholarship, fellowship, or bursary of any Scottish University, or with any situation or appointment of any kind yielding an annual income of £100. The next competition will take place in September 1919.

1915, W. R. FORRESTER, M.A.

BAXTER (JOHN EDWARD) SCHOLARSHIPS.

These Scholarships were founded in 1876, and are three in number, each of the annual value of about £141, and tenable for three years. One is in the Department of Classical Literature, another in Mental Philosophy, and the third in Mathematics and Natural Philosophy. They are open for competition to all Masters of Arts of the University, of not more than three years' standing at the time of the competition. They cannot be held along with any other scholarship, fellowship, or bursary in any Scottish University. Two Scholarships in Classics may be open in March 1920, the Scholarship in Mathematics in June 1920, and that in Mental Philosophy in March 1920. *See* Deed of Foundation at p. 361 of *CALENDAR* for 1877-78.

1917, WILLIAM MURRAY, M.A. (Philosophical).

BLACK (C. B.) SCHOLARSHIPS IN GREEK.

These two Scholarships, value about £116 each (less Examiners' fees), are tenable for two years, and one Scholarship shall be awarded in each year. The examination will take place at the close of the Spring Term. The Scholarships are open to undergraduates, and to graduates of not more than two years' standing, who have attended the Honours Class in

Greek for at least one Winter Session or its equivalent. The holders of the Scholarships shall attend, for at least one session, lectures on the Greek New Testament in the University of Edinburgh, or in some other recognised University, or in an institution recognised for the purposes of graduation in Divinity by the University Court, and shall, if so required by the University Court, conduct a non-qualifying class in Hellenistic Greek during the second year of the tenure of the Scholarship; or, if not so required, shall, before the payment of the last instalment of the Scholarship, produce a thesis showing original research on some subject previously approved by the Senatus on the report of the Professors of Greek and Biblical Criticism. For Foundation, *see* p. 611 of CALENDAR, 1907-8.

1918, DOROTHY STEVEN, M.A.

1919, WILLIAM J. ANDERSON, M.A.

Prov. acc., DUDLEY S. HOPKIRK.

BRUCE OF GRANGEHILL AND FALKLAND'S CLASSICAL SCHOLARSHIP.

This Scholarship, founded in 1865 by Mrs Tyndall Bruce of Falkland, is of the annual value of £100, and is tenable for three years, during two of which the studies of the Scholar must be prosecuted in the University of Edinburgh, but in the third year they may be prosecuted in an English or Foreign University. By the terms of the Deed of Foundation (given at p. 205 of the CALENDAR for 1866-67), this and the two following Scholarships held by Students who have passed their Examinations for the Degree of Master of Arts with Honours, have hitherto been conferred upon the most distinguished in that one of the Honours Departments which is appropriated for each year. The Scholarship cannot be conferred upon anyone whose age exceeds twenty-three years, and it cannot be held with any other scholarship or fellowship of a Scottish University, or with any situation yielding an income of £100 per annum. In the event of the Scholarship becoming vacant during the period of tenure, through resignation of the Scholar, or otherwise, then the sum falling in shall be bestowed by the Senatus for the remaining period of tenure on a Student attending the Divinity Classes who shall be reported by the Faculty of Theology to be a meritorious Student and deserving of the Scholarship. Two Scholarships may be open in March 1920.

BRUCE OF GRANGEHILL AND FALKLAND'S SCHOLARSHIP IN MENTAL PHILOSOPHY.

This Scholarship, founded in 1865 by Mrs Tyndall Bruce of Falkland, is of the annual value of £100, and is tenable for the same period, and under the same conditions as the Classical Scholarship under the same foundation. The subjects of examination are Logic and Psychology, Metaphysics, Moral Philosophy, and History of Philosophy. The next award may be made in June 1920.

1918, JAMES BROWN, M.A.

BRUCE OF GRANGEHILL AND FALKLAND'S MATHEMATICAL SCHOLARSHIP.

This Scholarship, founded in 1865 by Mrs Tyndall Bruce of Falkland, is of the annual value of £100, and is tenable for the same period, and under the same conditions as the Classical Scholarship under the same foundation. The subjects of examination are Mathematics and Natural Philosophy. Two Scholarships may be open in June 1920.

CAMPBELL (ROBERT MACKENZIE).

See under BURSARIES.

CARNEGIE POST-GRADUATE SCHOLARSHIPS (£100) AND FELLOWSHIPS (£150), AND GRANTS IN AID OF RESEARCH.

Graduates of this University, preferably with Honours in at least one of the groups of History, Economic Science, English, and Modern Languages and Literature, are entitled to become Candidates. Application forms may be had from the Secretary to the Carnegie Trust, 22 Hanover Street, Edinburgh, to whom all communications must be addressed. Nominations for Scholarships, and applications for Fellowships and Grants in Aid must be lodged with the Secretary not later than 15th April annually.

DICKSON (WILLIAM) TRAVELLING FUND.

This Fund (the interest of which amounts to about £90 per annum) has been established for the purpose of assisting Graduates (men or women) of any Faculty, of not more than three years' standing, to travel, for a shorter or longer period, for purposes of study or research. Grants from the Fund may be made to holders of Scholarships, Bursaries, etc. Applicants are required to state—“(1) The purpose for which the Applicants desire to get a Grant for travelling; (2) the total amount of expenditure thought necessary; (3) the other means they have towards meeting this expenditure; and (4) the amount of the Grant required from the Fund.” The award of a grant to be based on—“(1) The importance of the work proposed to be undertaken; (2) the sufficiency of the means proposed to be applied to the work; (3) the capability of the Applicants for the work they respectively propose to undertake.” “Holders of Grants in all cases to satisfy the Senatus by periodical reports that they are carrying out satisfactorily the work or investigation undertaken; and to present a final report, or to deliver a course of public University Lectures on their work when completed.” Applications, on Special forms to be obtained at the Matriculation Office, must be lodged with the *Secretary of Senatus* on or before 7th March annually. For Deed of Endowment, see p. 514 of CALENDAR, 1889-90.

DRUMMOND MATHEMATICAL SCHOLARSHIP.

This Scholarship, founded in 1865 by Miss Elizabeth Drummond, in memory of her brother, Captain Drummond, R.E., Under Secretary for Ireland, is of the annual value of about £123, and is tenable for three years. By the Deed of Foundation (given at p. 198 of CALENDAR for 1865-66), it is open to Graduates in Arts of not more than three years' standing, who have graduated with Honours in the Department of Mathematics. It cannot be held with any other bursary or scholarship. The holder is recommended to travel, for the purpose of inspecting, in this and other countries, remarkable engineering and architectural structures, to extend his knowledge of the practical application of Mathematical principles; and, if required by the Senatus Academicus, to deliver reports on the principal structures examined by him, and the Mathematical principles exemplified thereby; which reports the Senatus may cause to be publicly read in the University or elsewhere in Edinburgh. The next award may be made in Summer 1920.

1915, T. A. BROWN, M.A., B.Sc.

EDMONDSTOUNE AYTOUN FELLOWSHIP IN ENGLISH LITERATURE.

This Fellowship is of the annual value of about £100, and is tenable for three years. Candidates must have taken the Degree of Master of Arts with Honours in English, and must have passed the last of the examinations necessary for that Degree not more than three years before the date of entry for any vacancy in the Fellowship. The subject of examination, which shall be announced at each election for the next vacancy, shall be either (a) a single author of importance (his life and works); or (b) a special period of English Literature; or (c) a special department or kind in English Literature, prose or verse. The Examiners for the Fellowship shall be the Professor of Rhetoric and English Literature for the time being, and an external examiner to be appointed by the Senatus. Two Scholarships may be open in January 1920.

Subject.—A Dissertation on "The literary poetry in English which a poet in the last quarter of the Fourteenth Century might have before him." (*Note.*—This question is to be dealt with specially, though not exclusively, by examination of the contents of the Auchinleck and Vernon MSS. Purely philological discussion is not required.)

Dissertations must be sent in by 3rd January 1920. These may be supplemented later by examination or otherwise, if necessary. For Foundation, see p. 589 of CALENDAR, 1905-6.

FERGUSON SCHOLARSHIPS. (Open Sept. 1919.)

Six Scholarships, each of the annual value of £80 and tenable for two years. Three are competed for annually—one for Classics; one for Mathematics, including Natural Philosophy; and one for Mental Philosophy, including Logic, Psychology, Metaphysics, and Moral Philosophy. The examinations for 1919 will be held in Glasgow—the Classical on the 23rd, 24th, and 25th; and the Mathematical and Mental Philosophical on the 23rd and 24th of September.

The competition is open to "all persons who have passed the examinations required for the Degree of Master of Arts in one of the Universities of Scotland (whether taking the Degree at the same time or not) provided that at the time of the competition not more than six years have elapsed since the time of their first entering a class qualifying for the M.A. Degree, and who have not already gained one of these Scholarships." Candidates are required to enter their names at the office of the Ferguson Bequest Fund, 94 Bath Street, Glasgow, before 1st September 1919.

For further information apply at the Office of The Ferguson Bequest Fund, 94 Bath Street, Glasgow.

1916, *Classics*, WM. J. ANDERSON, M.A., Edinburgh.

Mathematics (No Award).

Philosophy (No Award).

1917, *Classics*, ANDREW W. THOMSON, M.A., Aberdeen.

Mathematics (No Award).

Philosophy, JOHN ANDERSON, Glasgow.

1918, *Classics*, DOROTHY STEVEN, M.A., Edinburgh.

GRAY SCHOLARSHIP.

This Scholarship, founded by Mr Gray of Baad Park in 1864, is of the annual value of about £142, and tenable for two years. It is awarded for distinction in one of the Honours groups of subjects for the Degree of Master of Arts, or in one of the groups of subjects for the Final Examination for the Degree of Bachelor of Science, or in the Historical and Philosophical subjects of the examination for the Degree of Bachelor of Laws, or to Students in the Faculty of Divinity for distinction in the Final Examination for the Degree of Bachelor of Divinity. It has been resolved that the Scholarship shall be offered in rotation in the Faculties of Arts, Science, Law, and Divinity. When it falls to the Faculty of Arts it will be offered in rotation in the order of the groups of Honours subjects in the Arts regulations (only undergraduates being eligible to compete); and when it falls to the Faculty of Science, it will be offered in one of the groups of the Second Science Examination. When not awarded in the Faculty in which it is offered, it will then be offered to the other Faculties in rotation. The holder of the Scholarship is required, as a condition of tenure, to satisfy the Senatus Academicus that he is pursuing special higher studies, or that he is engaged in original research, either in the University of Edinburgh or in another University approved by the University Court, and he must also satisfy the Senatus Academicus of the importance of the work he proposes to undertake, and of his qualifications for such work. In 1920 the Scholarship may be offered in the Department of English.

GUTHRIE FELLOWSHIP IN CLASSICAL LITERATURE.

This fellowship, founded in 1866 by James Guthrie, Esq., London, is of the annual value of about £130, and is tenable for four years. By the terms of the Deed of Foundation (given at p. 210 of the CALENDAR for 1866-67) it is for proficiency in Classical Literature, and is open to

Graduates in Arts of the University who have taken their Degree since the last competition. Students who have passed all their examinations for a Degree since the last competition, but have deferred graduating, are also eligible. It cannot be held along with any other fellowship or scholarship in the said Department in a Scottish University. The next competition may take place in March 1920.

HAMILTON PHILOSOPHICAL FELLOWSHIP.

This Fellowship, founded in 1866 by the subscribers to the fund for a Memorial to the late Professor Sir William Hamilton, and by the Association for the better endowment of the University, is of the annual value of about £131, and is tenable for three years. By the Deed of Foundation (given at p. 213 of CALENDAR for 1866-67), the Fellowship is open to all Graduates in Arts of the University of Edinburgh of not more than three years' standing at the time of the competition. It cannot be held along with any other scholarship or fellowship in any Scottish University. The subjects of examination are Logic, Metaphysics, Moral Philosophy, and the History of Philosophy. The next competition will take place in September 1919.

HERIOT TRAVELLING SCHOLARSHIPS FOR TEACHERS OF MODERN LANGUAGES (MEN OR WOMEN).

The Scholarships (£100, tenable for one year) are open to Graduates in Arts of this University, of not more than four years' standing at the date of election as scholars, who have passed the Degree Examination (Honours or Ordinary) in one of the Modern Languages either before or after graduation, have attended an Honours Class in the Language for which the Scholarship is awarded, and who are, or intend to become, Teachers of Modern Languages. For further particulars apply to the Clerk of George Heriot's Trust, 20 York Place, Edinburgh, from whom schedules of application may be obtained.

KAHN (ALBERT) TRAVELLING FELLOWSHIPS.

(See Appendix.)

KIRKPATRICK HISTORY SCHOLARSHIP.

This Scholarship, of the value of about £96, founded by the late Miss Annabella Kirkpatrick, will be awarded annually to the most distinguished First Class Honours Graduate in History of the year, whom failing, to the candidate who, during the two years immediately preceding the award, shall have attained the highest distinction in the ordinary Class of Constitutional Law and History, and in at least one other qualifying Class in History or in Political Science. For Foundation, see p. 592 of CALENDAR, 1905-6.

1919, ELIZABETH G. K. HEWAT.

MACKAY SMITH SCHOLARSHIP IN NATURAL PHILOSOPHY.

(See under **Faculty of Science.**)

MACKENZIE CLASSICAL SCHOLARSHIP.

This Scholarship was founded in 1862, by James Mackenzie, Esq., W.S. It is of the annual value of about £138, and is tenable for four years; and the award carries with it free admission to the Edinburgh Philosophical Institution during the years of tenure. By ordinance No. 90 of the Scottish Universities Commissioners of 1858, it is open for competition to all Graduates in Arts in the University of Edinburgh of not more than three years' standing at the time of the competition. Candidates are examined in CLASSICAL LITERATURE and in ENGLISH LITERATURE, and the Examination is conducted by three or more Examiners selected by the Senatus from their own body. It cannot be held along with any other scholarship, fellowship, or bursary of any Scottish University. The Examinations include—1. Translations from Latin and Greek authors; 2. Composition in Latin and Greek Prose; 3. Latin and Greek Literature, and History; 4. English Essay-Writing; 5. History of English Literature. The competition will take place in March 1920.

1913, D. C. MACGREGOR, M.A.

MACLAREN (CHARLES) SCHOLARSHIP.

This Scholarship, founded in 1871 by the Trustees of Mrs Maclaren, in memory of Charles Maclaren, Esq., the eminent geologist, is of the annual value of about £142, and is tenable for three years. It is for the encouragement of the study of Mathematics and Natural Philosophy, and is open to all graduates in Arts of not more than three years' standing at the time of the competition (and under thirty years of age) who shall have taken honours in Mathematics. The successful competitors are to spend a few months in travelling and in examining remarkable engineering and architectural structures, and to submit a report to the Senatus, which report the Senatus may cause to be publicly read in the University. The Scholarship cannot be held along with any other scholarship, fellowship, or bursary of any University, or with any situation or appointment yielding an annual income of £100. The Deed of Foundation is given at p. 324 of CALENDAR for 1873-74. The next competition will be in Summer 1920.

MACHERSON SCHOLARSHIP.

This Scholarship is awarded annually by the Senatus Academicus to a student who has, within six years of the date of the competition, completed the examination necessary for the degree of Master of Arts in the University of Edinburgh, with or without honours, who has included in his examination the subjects of Latin and Greek, and who has attended the class of Celtic and attained distinction in that subject. The scholar must study Celtic in a University or other place offering special facilities for Celtic study, subject to the approval of the Senatus Academicus. The

Scholarship is of the value of about £112 (less fees to Examiners), and is tenable for one year. Before 15th February next after his appointment the scholar must submit to the Senatus Academicus a report of the work he has done, and of such further studies in Celtic as he proposes to prosecute, and the Senatus Academicus may, if they think fit, appoint him to the said Scholarship for a further period of one year. In the case of a scholar being reappointed for a second year a new scholar cannot be appointed till the following year. May be open in June 1920.

MORAY (EARL OF) ENDOWMENT FOR THE PROMOTION OF ORIGINAL RESEARCH.

1. The available income (which amounts to over £800 per annum) is, in the first place, applied to the payment of the actual expenses of the prosecution of Original Research, present or contemplated, intended and likely to increase existing human knowledge, in any of its departments. In such expenses would be included apparatus, special accommodation, specimens, chemical substances, books, journals, pamphlets, reproductions of manuscripts, etc., and actual maintenance and travelling expenses, in so far as they are shown to be necessary for the purposes of research, provided that it shall be permissible to furnish out of the income such specific additions to the Library as may be deemed necessary to stimulate and aid research. All apparatus, specimens, books, journals, pamphlets, etc., and all unused chemical substances shall, at the termination of the research, be returned, or otherwise accounted for to the University.
2. Any surplus income after meeting the claims defined in 1, above, may be expended in (a) the printing and publishing of noteworthy results, including illustrations for papers containing such results; and (b) the payment, after careful consideration of all the circumstances, of such grants of money as may be necessary to enable applicants to enter upon or carry on the work of research, or to encourage the prosecution of research.
3. All graduates and other members of the University, "or other persons who have given satisfactory proof of general education and of fitness to engage in some special study or research," are entitled to apply for assistance.
4. In so far as the subject of the research admits, the investigation shall be conducted in the buildings of the University.
5. Applications will only be considered at the December and May Meetings of Senatus. Any application should be in the hands of the Secretary of Senatus *at least two weeks* before the date of the Meeting at which it is to be considered. See Regulations in *CALENDAR* for 1897-98, p. 428.

NICHOL FOUNDATION.

The free yearly interest or income derivable from this foundation, amounting to about £50, shall be paid to a deserving student, who shall regularly attend and devote himself as assistant in the Physical Laboratory, and who shall be bound to give his whole time in promoting the study of Natural Philosophy in connection therewith. It is tenable for one year,

but on the recommendation of the Professor of Natural Philosophy it may be continued for a second year or longer. It cannot be held along with any bursary or scholarship. See Deed of Foundation in CALENDAR for 1897-98, p. 419.

PITT CLUB CLASSICAL SCHOLARSHIP.

The Pitt Club Scholarship, of the annual value of about £102, tenable for four years, is open for competition to all Graduates in Arts of the University, of not more than four years' standing when the competition takes place. The subjects embraced in the examination are CLASSICS and ENGLISH LITERATURE. The next competition may take place in March 1920.

RHIND SCHOLARSHIPS.

These Scholarships were, in accordance with the will of the late A. H. Rhind, Esq., of Sibster, founded by his trustees on the reversion of his estate. They are two in number, one in the Department of Classical Literature, the other in that of Philosophy, are each of the annual value of about £133, are tenable for not less than two years, or more than three years, and are open to Undergraduates and to Graduates of not more than three years' standing at the time of the competition. Competitors must have attended classes in this University for not less than three academic years, attendance being defined to mean that the competitors must present Certificates of having attended at least four classes during the period aforesaid, and of having duly performed the work of the classes. The successful Candidates may be required to undertake duties connected with the teaching of the University, or otherwise assist in some department of its operations. See Deed of Foundation at p. 323 of CALENDAR for 1874-75. The next competition for the Classical Scholarship may take place in March 1920, and the next competition for two Philosophical Scholarships will take place in September 1919.

RITCHIE SCHOLARSHIPS FOR CIVIL SERVICE CANDIDATES.

These two Scholarships, endowed by the late James Ritchie, formerly of Edinburgh, are for candidates for the Civil Service of India. They are open annually, are each of the annual value of about £50, and tenable in the first instance for one year. They are not tenable along with any other scholarship or bursary without the express approval of the Senatus. Candidates must be eighteen years of age at the date of application (1st October), and they must be still eligible to compete for the Civil Service in the following August. The Scholarships will be awarded without examination, on the basis of work already done at Edinburgh University. Candidates will be expected to show evidence of some such distinctions as the following:—Second Class Honours (at least) in some department of the Faculty of Arts; a degree in Science; or Class Certificates of Merit (First Class) in three or four different subjects. The holders will be required (1) to declare their intention of competing for the Civil Service; (2) to pursue their studies in Edinburgh University, and to submit from

time to time evidence of industry and progress in the subjects which they intend to offer in the Civil Service Competition. The holder of a Scholarship may offer himself again as a candidate. He will not be debarred from entering his name for the Home as well as the India Service; and in the event of his being high enough in the list to have the option of a Home appointment, he will be free so to choose. Applications must be sent to the Secretary of Senatus on or before 1st October, and should be accompanied by (a) evidence of age, (b) a list of distinctions obtained in Class and Degree Examinations at Edinburgh.

SCOTT (GEORGE) TRAVELLING SCHOLARSHIP.

This Scholarship, of about £64, is awarded annually (a previous holder not being ineligible for re-election), for the purpose of assisting Graduates in Arts of the University, of not more than three years' standing at the date of their election as Scholars (in the selection of whom a preference shall be given to natives of Perthshire, should any such apply), to travel for purposes of Study or Research. Applicants are required to state:—(1) The purpose for which they desire to use the Scholarship; and (2) What other means they have towards the object in view. The award will be based on—(1) The importance of the work to be undertaken; (2) the sufficiency of the means proposed to be applied to the work; (3) the capability of the applicant for the work he proposes to undertake. The holders are required in all cases to satisfy the Senatus, by half-yearly reports, that they are carrying out the work undertaken; and must present a final report or deliver a short Course of Lectures on their work when completed. The appointment is made by the Senatus on a report by the Faculty of Arts on the merits of the applicants. Preference will be given to Candidates desiring to undertake work in the following groups of subjects, under the following scheme of rotation, provided always that a suitable Candidate presents himself:—(1) Classical Languages and Classical Archæology; (2) Mental Philosophy; (3) Mathematical and Physical Science; (4) Semitic and Indian Languages; (5) English and Modern Languages; (6) History. The appointment of a Preferential Candidate will not change the rotation of the groups. The last award to a Non-Preferential Candidate was in the group of Classics. In 1920, failing a Preferential Candidate, the Scholarship will be awarded in the next group in the above rotation (viz., English and Modern Languages), provided there be a suitable Candidate. Failing a suitable Candidate, it will be open in the following group. See Deed of Foundation in CALENDAR for 1897-98, p. 419.

1919, AILEEN CALDERWOOD, M.A. (Preferential).

SHAW FELLOWSHIP IN MENTAL PHILOSOPHY.

This Fellowship, founded in 1867 by contributors to a Memorial to Sir James Shaw, Bart., a native of Ayrshire, afterwards Lord Mayor of, and M.P. for, London, and by the Association for the better endowment of the University, for the encouragement of the study of Logic, Psychology, Metaphysics, Moral Philosophy, and the History of Philosophy, is awarded after competitive examination on these subjects. It is open to Graduates

in Arts of any of the four Scottish Universities, of not more than five years' standing at the time of the competition, is of the annual value of about £211 (less fees to Examiners), and is tenable for five years. It cannot be held along with any other fellowship, scholarship, or bursary in any Scottish University, and it is not open to the competition of any person who already holds a fellowship in any English or Irish University, though the holder of the Shaw Fellowship will not be precluded from afterwards obtaining an English or Irish fellowship. The holder is required during the fourth or fifth year of his tenure of the Fellowship to deliver in this University a Course of four Lectures on any of the subjects for the encouragement of the study of which the Fellowship was founded. The next competition for the Fellowship will take place in December 1919 at the beginning of the Christmas vacation. (Deed of Foundation, p. 237 of CALENDAR for 1868-69.)

SKIRVING SCHOLARSHIP IN MORAL PHILOSOPHY.

This Scholarship, founded in accordance with the Will of the late David Skirving, of No. 13 Westbourne Park, London, is of the annual value of about £57 (inclusive of the cost of the gold medal), and is tenable for three years. See Deed of Foundation at p. 350 of CALENDAR for 1876-77. The Scholarship, with gold medal, is open for competition to any undergraduate or graduate in Arts of this University on the following conditions:—(1) That the candidate has attended the first Ordinary Course and one other full course, Ordinary or Honours, in Moral Philosophy in separate years; (2) that not more than two academic years have elapsed between the year of attendance on the first of these courses and the year in which the competition is held; (3) that the Scholarship may not be held along with any other Scholarship or Fellowship in this University. The scholar may be required to present evidence of further study or investigation in the subject. If the Scholarship be not awarded, or become vacant in any academic year, it will be open for competition in the next academic year. The first competition for this Scholarship will be held in June 1920.

SWINEY LECTURESHIP ON GEOLOGY. (Page 487.)

VANS DUNLOP SCHOLARSHIPS.

Eleven VANS DUNLOP SCHOLARSHIPS, each of the annual value of £100, and tenable for three years, are, by the Deed of Foundation, appropriated to the following subjects:—1. English Literature and Poetry; 2. Classical Learning—Latin and Greek; 3. Political Economy; 4. Logic and Metaphysics; 5. Natural Philosophy; 6. Mathematics; 7. Hebrew and Oriental (Semitic) Languages; 8. History; 9. Moral Philosophy; 10. Sanskrit and Comparative Philology; 11. Modern Languages. In terms of the Trust-Disposition (which is given at p. 380 of CALENDAR for 1880-81), the Scholarships are given only for "distinguished proficiency" in the various subjects of competition, as determined by the Examiners and the Senatus Academicus.

Each Scholarship is tenable on condition that the scholar submits annually to the University evidence that he is prosecuting his studies, or his professional work, in a manner satisfactory to the Senatus. The evidence generally may consist of—(1) Certificates of attendance on Lectures or Laboratories in this or some other University; or (2) Certificate of having acted as Assistant to a Professor in this or some other University; or (3) A written Report of work done by the Scholar during the year, together with a Thesis composed by himself on a subject connected with that work. For the Natural Philosophy Scholarship, Scholars will be required in the first year of tenure of the Scholarship either to pursue a course of Laboratory study or to engage in Experimental Research, and in the second and third years either to pursue a course of Advanced study in Mathematical Physics, or to engage in Experimental Research—the work for each year to be approved by the Senatus.

Not more than one of these Scholarships can be held by the same person, and Vans Dunlop Scholars cannot hold, along with their Scholarship, any other Fellowship, Scholarship, or Bursary in the University of Edinburgh.

Candidates for the Vans Dunlop Scholarships must, on entering for the Examinations, produce evidence that they have fulfilled the conditions of eligibility.

Candidates, if not already matriculated, are required to pay the Matriculation Fee for the year in which the competition takes place.

The names of Candidates highly distinguished in the Vans Dunlop Scholarship examinations may be published.

English Literature and Poetry.

Candidates are subjected to an Examination testing—(1) Knowledge of the History of English Literature generally, and more particularly through a prescribed period; (2) Acquaintance with certain books, chiefly of English Poetry, prescribed for special reading; (3) Ability in English Composition, in the form of an Essay, written in the Examination Room, on some subject of literary criticism.

The Examination (which will be combined as far as possible with that for Honours) will include, besides the Class Lectures, (a) Independent Knowledge of the History of English Literature, and (b) of the following works:—

Chaucer's *Prologue to the Canterbury Tales*; *Knights' Tale*; *Troilus and Cressida*; Langland's *Piers the Plowman*, Passus i.-iv.; Malory's *Morte d'Arthur*; Dunbar's *Poems*; Spenser's *Shepherd's Calendar* and *Faery Queene* (Books v. and vi.); Marlowe's *Edward II.*; Shakespeare's *Tempest*, *Love's Labour's Lost*, *Winter's Tale*, *Romeo and Juliet*, *Othello*, *Cymbeline* and *Sonnets*; Jonson's *Every Man in his Humour*; Bacon's *Essays*; Milton's *Paradise Lost*, i.-iii.; *Sonnets*, and *Aveopagitica*; Brown's *Un-Burial*; Cowley's *Pindarique Odes*; Dryden's *Essay of Dramatic Poesy*, the *Defence of the Essay*, *Conquest of Granada*, and *Abdolom and Achiophel*; Pope's *Essay on Criticism*, *Satires*, and *Epistles*; Swift's *Tale of a Tub*; Johnson's *Lives of Cowley, Dryden, Pope, and Swift*; Gray's

Poems; Cowper's *Task* and *Minor Poems*; Burns' Poems; Scott's Poems; Wordsworth's *Excursion*, Books i. and ii., *Prefaces*, *The Lyrical Ballads*; Coleridge's *Christabel* and *Kubla Khan*; Byron's *Child Harold*; Shelley's *Adonais Lyrics*; Keats's Poems; Tennyson's Poems before 1859; Browning's *Dramatic Lyrics*, *Dramatic Romances*, and *Dramatis Personæ*.

The competition is open to all who have been Matriculated Students in this University for not less than two years, in each of which they must have attended at least one full course or two half-courses; provided that at the time of the competition not more than one year has elapsed since they ceased to attend classes in this University, and further that not more than five years have elapsed since the time of their first entering a class qualifying for the M.A. Degree; provided also that they have given regular attendance in the Class of Rhetoric and English Literature, and in at least one other class in English Language or Literature. The competition will take place in June 1920.

Classical Learning—Latin and Greek.

1. *Latin*.—The Examination will test:—

(a) Power of Latin Composition, and of translating from Latin authors not previously prescribed.

(b) Knowledge of Roman History and Literature.

2. *Greek*.—(a) Power of Greek Composition, and of translating from Greek authors not prescribed.

(b) Knowledge of Greek History and Literature.

The competition is open to all who have been Matriculated Students in this University for not less than two years, in each of which they must have attended at least one full course or two half-courses; provided that at the time of the competition not more than one year has elapsed since they ceased to attend classes in this University, and further that not more than four years have elapsed since the time of their first entering a class qualifying for the M.A. Degree; provided also that they have given regular attendance in the Latin and Greek Classes necessary for graduation in Arts. Two Scholarships may be open in October 1920.

Political Economy.

The Examination will test knowledge of the subjects assigned in the Deed of Endowment to the Chair of Commercial and Political Economy and Mercantile Law. It will include the subjects embraced in the Lectures, and also in books prescribed from time to time by the appropriate Board of Studies. The competition is open to all who have been Matriculated Students in this University for not less than two years, in each of which they must have attended at least one full course or two half-courses; provided that at the time of the competition not more than one year has elapsed since they ceased to attend classes in this University, and further that not more than five years have elapsed since the time of their first entering a class qualifying for the M.A. Degree; provided also that they have regularly attended the Class of Political Economy. Two Scholarships may be open in October 1919, when the subjects of Examination will be the books set in Political Economy for Honours in Economic Science in 1919, p. 198.

Logic and Metaphysics.

The competition is open to all who have been Matriculated Students in this University for not less than two years, in each of which they must have attended at least one full course or two half-courses ; provided that at the time of the competition not more than one year has elapsed since they ceased to attend classes in this University, and further that not more than four years (or, in the case of those who have taken Honours in a group other than Mental Philosophy, five academic years) have elapsed since the time of their first entering a class qualifying for the M.A. Degree ; provided also that they have completed attendance on the Ordinary Class of Logic and Metaphysics. The next competition will take place in June 1920.

Natural Philosophy.

The Examination will consist of the three Natural Philosophy papers of the Intermediate Honours Examination in Mathematics and Natural Philosophy, any one of the seven Natural Philosophy papers of the Final Honours Examination of the same department, and a special paper on Physical Experimental Methods and the Theory of Errors. Properly authenticated records of laboratory work, or of the results of original research, may be submitted by Candidates as additional evidence of proficiency, and if submitted will be taken into consideration.

The competition is open to all who have been Matriculated Students in this University for not less than two years, in each of which they must have attended at least one full course or two half-courses ; provided that at the time of the competition not more than one year has elapsed since they ceased to attend classes in this University, and further that not more than six years have elapsed since the time of their first entering a class qualifying for the M.A. Degree ; provided also that they have attended at least two of the classes in Natural Philosophy, of which either the Ordinary Class or the Senior Practical Class must be one.

Two Scholarships may be open in June 1920.

Mathematics.

The examination will test Candidates in pure mathematical subjects in the Honours Department for the Degree of Master of Arts, and in special subjects to be prescribed by the examiners from time to time.

The competition is open to all who have been Matriculated Students in this University for not less than two years, in each of which they must have attended at least one full course or two half-courses ; provided that at the time of the competition not more than one year has elapsed since they ceased to attend classes in this University, and further that not more than six years have elapsed since the time of their first entering a class qualifying for the M.A. Degree ; provided also that they have attended at least two of the Mathematical Classes, one of these being an Honours Class.

The next examination may take place in June 1920.

1917, ELEANOR FAIRMAN, M.A.

Hebrew and Oriental (Semitic) Languages.

The competition is open to all who have been Matriculated Students in this University for not less than two years, in each of which they must have attended at least one full course or two half-courses ; provided that at the time of the competition not more than two years have elapsed since they ceased to attend classes in this University, and further that not more than seven years have elapsed since the time of their first entering a class qualifying for the M.A. Degree ; provided also that they have attended at least two courses in Semitic Languages, of which one must be an Honours Course in Hebrew or Arabic.

The examination for the Scholarship will be combined, as far as possible, with that for Honours in Semitic Languages.

The next competition may take place in June 1920.

1919, ARCHIBALD C. KENNEDY, M.A.

History.

The competition is open to all who have been Matriculated Students in this University for not less than two years, in each of which they must have attended at least one full course or two half-courses ; provided that at the time of the competition not more than one year has elapsed since they ceased to attend classes in this University, and further that not more than five years have elapsed since the time of their first entering a class qualifying for the M.A. Degree ; provided also that they have attended at least two classes qualifying for Graduation in History within the University.

Six papers will be set, on the following subjects :—(1) A General Paper ; (2) English History—General and Constitutional ; (3) Special Period of English History, 1399-1603 ; (4) European History, 1648-1715 ; (5) Scottish History, 1424-1603 ; (6) Roman History, B.C. 202-44.

Two Scholarships may be open in October 1919.

Moral Philosophy.

The competition is open to all who have been Matriculated Students in this University for not less than two years, in each of which they must have attended at least one full course or two half-courses ; provided that at the time of the competition not more than one year has elapsed since they ceased to attend classes in this University, and further that not more than four years (or, in the case of those who have taken Honours in a group other than Mental Philosophy, five academic years) have elapsed since the time of their first entering a class qualifying for the M.A. Degree ; provided also that they have completed attendance at the Ordinary Class of Moral Philosophy.

The next competition may take place in June 1920.

1919, LOUIS A. REID, M.A.

Sanskrit and Comparative Philology.

The competition is open to all who have been Matriculated Students in this University for not less than two years, in each of which they must have attended at least one full course or two half-courses ; provided that at

the time of the competition not more than one year has elapsed since they ceased to attend classes in this University, and further that not more than six years have elapsed since the time of their first entering a class qualifying for the M.A. Degree; provided also that they have attended at least two courses, in two separate years, under the Professor of Sanskrit and Comparative Philology.

The next competition will take place in March 1920.

Six papers will be set:—(1) History of Sanskrit Literature up to 1000 A.D.: Grammar, including the outlines of Vedic Grammar; (2) Prose Composition and Unseen Translation; (3) *R̥gveda, Maṇḍala VII.*, Hymns 1-40 (edited by P. Peterson, Bombay Sanskrit Series, No. 43); (4) Kālidāsa, *Meghadūta*, with the commentary of Mallinātha; (5) the *Ratnāvalī*; (6) *Mānava Dharma Śāstra*, Book II. Candidates will be expected to show knowledge of the subject matter of the books set.

1917, M. R. SASTRI.

Modern Languages.

The Scholarship is awarded in French and German alternately. The competition is open to all who have been Matriculated Students in this University for not less than two years, in each of which they must have attended at least one full course or two half-courses; provided that at the date of the examination not more than seven years have elapsed since the time of their first entering a class qualifying for the M.A. Degree; provided also that they have attended at least two full courses in French, or in German, as the case may be, of which one must be an Honours course. Persons whose native language is French are not eligible to compete for the Scholarship in French, nor those whose native language is German for the Scholarship in German. The examination, which will be combined as far as possible with that for Honours in Modern Languages, will include:—(a) translation of unseen passages from and into French (or German); (b) an essay in French (or German); (c) questions on French (or German) Philology, Literature, and History; (d) an oral examination to test pronunciation and ability to read aloud intelligently, and to converse correctly and fluently in French (or German). Two Scholarships—one in French and one in German—may be awarded in March 1920.

WARDLAW (D. R.) MEMORIAL BEQUEST.

In 1907 Miss Margaret Wardlaw, 9 Hope Terrace, Edinburgh, bequeathed £2000 and a share of the residue of her estate, the annual income of which, amounting at present to about £90, is to be applied by the University Court, under such regulations as they may frame from time to time, for behoof of indigent and deserving students of the University of Edinburgh, in any Faculty, and of either sex, who may be temporarily incapacitated from pursuing their studies in consequence of illness or personal injury; or, in so far as not required for the class above described, for behoof of students of the University who are indigent and deserving though not so incapacitated. Applicants for the benefit of the Fund are required to apply to the Deans of their respective Faculties, not later than 30th October 1919.

II. Bursaries.

Notes.—(1) The values of Bursaries are stated *approximately*.

(2) When no statement is made to the contrary, the Patronage is in the hands of the Senatus.

For information regarding the Bursary Examinations, Conditions of Tenure, etc., see page 328.

The Bursaries open in Session 1919-20 may be classified as follows:—

First Year Bursaries.

1. **Unrestricted (Non-preferential) Bursaries**, the Patronage of which is in the hands of the Senatus:—

Bruce of Grangehill and Falk-	Welsh.
land.	Whitelaw.
Jardine (Bidder).	

2. **Restricted or Preferential Bursaries** (for Patronage, etc., see detailed list following):—

Allan.	M'Diarmid.
Ardvorlich.	Macdougall.
Ayrshire.	Mackenzie (Stornoway).
Baxter of Balgavies.	Mackinnon.
Border Counties.	MacLaine (Gillian).
Bryson.	Maclaurin.
Caithness.	Maclean.
Chrystie.	Mair (for Women).
Cowan.	Mann.
Donaldson of Auchairne.	Menzies.
Fettes.	Nairn.
Ford.	Renton.
Gillan.	Thomson.
Grierson.	Zetland.
Jardine of Thorlieshope.	

3. **Bursaries requiring Special Entry** with agents, etc.:—

Fraser (Thomas).	Sibbald.
Grant.	Simson (Dunbar).
Heriot.	Simson (Edinburgh).

Bursaries for Second and Later Years.

Bruce of Grangehill and Falkland (Second Year).
 Harrison (Third Year).
 Horsliehill Scott (Third Year).
 Renton (see Regulations).
 Spence (Second Year).
 Stuart (Second Year)
 Victoria Jubilee (for Women) (Fourth Year).

Bursaries in connection with Particular Classes or Subjects.

Fraser (Donald).	Newton.
Lanfine.	Patterson..

AITKEN. See Muirhead-Aitken.

ALLAN. (One Bursary open May 1920.)

Founded in 1886, by Richard Allan, Feuair, Kelso. Three Bursaries : each £30 a year, for 3 years. Patrons, the Trustees of Richard Allan.

These Bursaries are available to Students attending classes in any of the Faculties of Arts, Medicine, or Law, in the University of Edinburgh, or to Students attending the classes in said University necessary for Degrees in Science ; and are tenable for three years, or for such part of that period as the Bursar shall remain a Student at the University. In nominating Candidates for presentation to the Bursaries, preference will be given to such as have been born in the parish of Kelso, provided they are qualified by their previous education for entering the University. Applications to be lodged with Messrs P. & J. Stormonth Darling, Writers, Kelso, in May annually. Bursary awarded in June.

1917, DAVID M. PAULIN.
 1918, T. R. PATERSON.
 1919, IAN W. M'HARDY.

ANGUS CLUB. See Dalhousie.**ARCHIBALD OR M'GUFFIE.**

Founded in 1914 by the Rev. George M'Guffie. One Bursary : about £34 a year, for 3 years.

A preference will be given to students bearing the name of Archibald or M'Guffie, who have been born in one of the parishes of Dollar, Tillicoultry, or Whithorn, or educated in any of the schools of these parishes ; whom failing, to any youths born in any of the said parishes or educated in any of the said schools, although not bearing either of the said names. See Deed of Foundation, p. 799 of CALENDAR for 1914-15.

ARDVORLICH.

Founded in 1870, by Stewart of Ardvorlich. One Bursary: £16 a year, for 4 years. Patron, the Proprietor of the Estate of Ardvorlich.

The Bursary is open to Students of Arts, natives of the parishes of Comrie, Balquhiddie, Callander, or Killin, failing whom, to natives of Perthshire, and failing such, to the best qualified candidate. Candidates must show that they require aid in obtaining a University education. Latin, Greek, French, and German have equal marks in the Examination for the Bursary; and candidates will also be examined in Preliminary Gaelic. Bursars must attend Arts or Science classes; and the Bursary cannot be held with any other Bursary exceeding £25 annually. For remodelled Foundation, see CALENDAR, 1887-88, p. 501; for original deed, see p. 275 of CALENDAR for 1870-71.

DAVID L. MACINTYRE.

ARGYLLSHIRE.

Founded in 1869, by the Argyllshire, Bute, and Western Isles Association. One Bursary: about £20 a year, for 3 years. Patrons, the Association.

Candidates (male or female) must be natives of Argyllshire, Bute, or Western Islands. Subjects of Examination: English, Latin, Mathematics, and any one of the following:—French, German, Greek, Gaelic, with additional papers, and full marks in each subject taken. Application to be made to the Secretary of the Association, 57 Queen Street, Edinburgh.

**ASSOCIATION (EDINBURGH) FOR THE UNIVERSITY
EDUCATION OF WOMEN.**

Four Bursaries were founded in connection with the classes of the above Association, and have been awarded to Students of Edinburgh University since the admission of Women to teaching and graduation in 1892. See HOULDSWORTH, MAIR, VICTORIA JUBILEE, and ZETLAND.

AUCHAIRNE. See Donaldson of Auchairne.

AYRSHIRE CLUB.

(May be open June 1920—see below.)

Founded in 1858, by the Edinburgh Ayrshire Club. Two Bursaries: each £30 a year, for 3 years. Patrons, the Club.

The Bursaries are restricted to natives of Ayrshire, men or women; and a Bursary is offered for competition in each alternate year. Apply to the Secretary of the Club, G. D. Valentine, Esq., Advocate, c/o J. D. Boswell, Esq., W.S., 41 Northumberland Street, Edinburgh, not later than 1st June 1920.

1913, ANDREW LANG.
1918, MARION C. GRAY.

BAXTER OF BALGAVIES. (Two Bursaries open June 1920.)

Founded in 1897, by the Misses Baxter of Balgavies. Three Bursaries : each £30 a year, for 3 years.

The Bursaries are open both to men and women who have been educated in the High School of Dundee for at least one year immediately preceding the competition. The subjects of Examination, for two of the Bursaries, are the same as for the Open Bursaries in Arts. The successful candidates may study for the Degrees of M.A., B.Sc., B.L., LL.B., or M.B., Ch.B. The successful candidates must have passed the Preliminary Examination in Arts or Science, or its equivalent. The subjects of examination for the third Bursary are Mathematics and Physical Science. Candidates may study for M.A., B.Sc., or M.B., Ch.B. The examination for this Bursary is conducted in Dundee by Examiners appointed by the Directors of the High School. Intending candidates for any of the Bursaries must communicate with the Secretary of the above School, John L. Stevenson, Solicitor, 46 Reform Street, Dundee.

1916, JAMES W. FERGUSON.

1917, JAMES R. PHILIP, WM. WATSON (No. 3).

1918, W. F. MITCHELL.

BLAIR. (Open June 1920.)

Founded in 1838, by Robert Blair, D.D., Barton St Andrews, Norfolk. One Bursary : £10, 10s. a year, for 3 years. Patrons, the Principal, and the Professors of Latin, Greek, Mathematics, Logic and Metaphysics, and Moral Philosophy.

BORDER COUNTIES ASSOCIATION.

(Nos. 1 and 3 open June 1920.)

(1) The *Border Counties Association Bursary*, founded in 1869, by the Edinburgh Border Counties Association : £20 a year, for 4 years.

(2) The *Sir Walter Scott Bursary*, founded by the same Association in 1872 : £30 a year, for 4 years.

(3) The *Strang Steel Bursaries*, founded in 1912, by the same Association. Four Bursaries : each £30 a year, for 4 years. Patrons, the Association.

Nos. 1 and 2 are for Students entering upon the regular curriculum in Arts, Science, or Medicine with a view to graduation. They are open to competition by Scholars of both sexes who have attended a school in any of the Counties of Roxburgh, Berwick, or Selkirk, or the Burgh of Berwick-on-Tweed, for two complete sessions immediately prior to the time of their examination for the Bursaries. Subjects : Arts First Year Open Bursary Examination. No. 1 may be open in 1920 ; No. 2 in 1921.

1916, MARY E. BAIN (No. 1).

1917, HARRIET G. LEITCH (No. 2).

The *Strang Steel Bursaries* are for Students entering upon a regular curriculum, with a view to graduation in any of the Faculties in any of the Universities of Scotland. One Bursary is open annually for competition to Students born in, or for the two years prior to 31st May in the year of examination resident in, the Parishes of Yarrow, Ettrick, Kirkhope, Ashkirk, Selkirk, Heatherlie, Caddonfoot, or Teviothead. Failing a suitable Candidate from any of these parishes, the Bursaries shall be open for competition to Students born or resident as aforesaid in any of the other parishes in the Counties of Selkirk and Roxburgh. Subjects: English, and three others selected by the Candidate.

Applications to be made to Stuart Douglas Elliot, S.S.C., 40 Princes Street, Edinburgh.

- 1916, JAMES SCOTT RIDDLE.
- 1917, JEAN M. T. CONNOCHIE.
- 1918, EDITH A. ALEXANDER.
- 1919, HUGH BRADFORD.

BROWN.

Founded in 1714, by the Rev. Robert Brown of the Protestant Consistory at Zamose. Two Bursaries: one of £14, 12s. a year, the other of £9, 15s. a year, and each for 4 years. Patrons, the Town Council of Edinburgh. Both bursaries open in 1921.

Apply, in May, to the Town Clerk, Edinburgh.

- 1913, J. D. W. MILLS.
- 1917, WILLIAM ANDERSON.

BRUCE.

Founded in 1853, by John Bruce, Esq., Trinity Crescent, Edinburgh. Five Bursaries: one of £40 a year, and four of £30 a year, for 4 years in each case. Patrons, the Town Council of Edinburgh.

Apply, not later than 31st May, to the Town Clerk, Edinburgh.

- 1914, ANDREW RYRIE, SIDNEY F. SMITH.
- 1915, CHARLES S. BALLANTYNE, THOMAS WILSON.
- 1916, DAVID WILKIE.
- 1918, RICHARD SNEDDON, WM. F. INGLIS.
- 1919, D. L. WATSON, R. E. GIBSON.

BRUCE OF GRANGEHILL AND FALKLAND.

(Open 1920. See below.)

Founded in 1865, by Mrs Margaret Tyndall Bruce of Falkland.
(1) Three *First Year* Bursaries: each £20 a year, for 3 years. (2) Three *Second Year* Bursaries: each £35 a year, for 3 years.

- (1) One *First Year* Bursary will be open in June 1920.
- (2) One *Second Year* Bursary is awarded annually.

1917 (*First Year*), ARCHIBALD D. FAIRBAIRN.

1918 (*First Year*), MARGUERETTA L. CUMMING, NETTA R. SEATH.
(*Second Year*), JOHN S. M'LAREN.

1919 (*First Year*), FRANCIS W. OAKLEY (resigned).

BRYSON. (Open 1920.)

Founded in 1702, by Thomas Bryson, Bailie and Merchant in Dunbar. Two Bursaries: each £12 a year, for 4 years. Patrons, the ministers of the Presbytery of Dunbar.

The Bursaries are tenable at any of the Scottish Universities. The Bursars must first enter the Humanity class: afterwards pass through the rest of the classes in Arts until their Laureation; at which time, if judged by the ministers of the Presbytery of Dunbar fit for the study of Theology, they may continue for two years in Theology.

CAITHNESS (EDINBURGH) ASSOCIATION.

(No. 2 open 1920.)

(1) Original Bursary, founded in 1864: £15 a year for 4 years. Patrons, the Association. Open 1923.

(2) Rhind Bursary: founded in 1864, by A. H. Rhind of Sibster: same value, etc. Open 1920.

(3) Miller Bursary: same value, etc. Open 1921.

(4) Ladies' Bursary and Bursary in memory of 13th and 14th Earls of Caithness (combined): same value, etc. Open 1922.

The Bursaries are tenable at any Scottish University. One Bursary falls vacant every year, in the order given above, and is awarded after competitive examination. The *Rhind Bursary* is open to "young men who have not been students at any University, and who must have been at school in Caithness for not less than three months, and that as the last school at which they have attended before the said competition." The other Bursaries are open to all young men and women who have not attended a University or Training College, and who have been at least six months at school in Caithness, and that as the last school at which they have attended before the competition. The Bursaries, excepting the *Rhind Bursary*, cannot be held along with any other Bursary or Bursaries exceeding £20 a year in value. The subjects of examination for the Bursaries are (1) English; (2) Mathematics; (3) Science; (4) Latin; (5) Greek; (6) French; (7) German; (8) History; (9) Geography. The medium of examination is the Leaving Certificate Examination of the Scotch Education Department in the Higher Standard in above subjects, held in the Spring of each year. Each Candidate is restricted to four subjects, of which the first must be English, the second Mathematics or Science, the third a Language, and the fourth any one of the above subjects not already chosen. Candidates must, on or before 1st February, intimate in writing to the Secretary of the Association, Mr A. W. Lowe, Solicitor, 3 North St Andrew Street, Edinburgh, their intention of competing.

CAMPBELL (ROBERT MACKENZIE).

Founded in 1914, by Mrs Isabel Wilson Campbell of Johannesburg. One Bursary: about £38 a year, for such term of years as the Senatus shall determine on each occasion of making an appointment: with power to further extend the period of tenure, on sufficient cause shown.

The "Robert Mackenzie Campbell Scholarship" is competed for at the Arts First Year Bursary Examination; and it can only be "awarded to, and held by, a student belonging to the County of Sutherland in Scotland." It is tenable in any of the Faculties. For Deed of Foundation, see CALENDAR for 1915-16, p. 791.

1918, D. A. URQUHART.

CHRYSTIE. (Open October 1919.)

Founded in 1698, by Adam Chrystie, one of the Under Clerks of Session. One Bursary: about £19 a year, less tax, for 4 years. Patrons, the Dean and Faculty of Advocates.

This Bursary is generally awarded to a first year student in Arts, but may be given to a student in any Faculty, at any stage of his studies. It cannot be held along with any other Bursary of greater value. Candidates are referred for information to the Clerk to the Faculty of Advocates, Advocates' Library.

1913, JAMES H. CLARKE.

COUSIN.

Founded in 1890, by Bailie George Cousin. One Bursary: about £35 a year, for 3 years.

The Bursary cannot be held along with any Fellowship, Scholarship, or Bursary of any Scottish University, or with any situation or appointment yielding an annual income of £30 or upwards. For Deed of Foundation, see CALENDAR for 1891-92, p. 536.

1918, R. R. TURNER.

1919, JOHN WILLIAMSON.

COWAN. (Open 1920.)

Founded in 1870, by David Cowan. Patrons, the Governors of Ayr Educational Trust.

These Bursaries are open to pupils of Ayr Academy who propose to attend any of the Scottish Universities. At least one Bursary is available each year; and its amount and the conditions of its award are fixed by the terms of the Bursary scheme for that year issued by the Ayrshire County Committee. Information will be afforded by J. H. Goudie, Esq., Ayr Educational Trust, Ayr.

DALGLEISH AND M'MORRAN.

Founders, James Dalgleish, 1644, and John M'Morran, 1673. One Bursary: £13, 10s. a year for 4 years. Patrons, the Town Council of Edinburgh. Open 1922.

Apply, in May, to the Town Clerk, Edinburgh.

1914, JOHN G. SINCLAIR.

1919 WILLIAM WEST.

DALHOUSIE.

Founded in 1872, by The Edinburgh Angus Club. One Bursary: £25 a year, for 4 years. Patrons, The Edinburgh Angus Club. Open to candidates of either sex, entering the University of Edinburgh for the first time, with a view to graduating in Arts. Preference will be given to natives of the County of Forfar who have been educated at a school or schools within the county; whom failing, to candidates (a) who are natives of the county; (b) both of whose parents are natives of the county; or (c) who have received the greater part of their education in a school or schools in the county. The subjects are as for first year University Bursaries. The Bursary may be open in 1922. For further particulars apply to the acting Secretary, Mr G. F. Mathers, W.S., 7 Thistle Street, Edinburgh.

1916, JAMES WATSON.

DONALDSON OF AUCHAIRNE. (Open June 1920.)

Founded in 1906, by Miss H. C. Donaldson of Auchairne. Three Bursaries: each about £75 a year, for 3 years.

The Bursaries are open to natives of the County of Ayr. One Bursary will be awarded each year. For Deed of Foundation, see CALENDAR for 1907-8, p. 613.

1917, JANE LYMBURN.

1918, ALEXANDER JENKINS, C. J. HENDERSON.

1919, ANN J. GRAY.

DOW.

Founded in 1837, by Patrick Dow, Esq., of Bannerfield. One Bursary: £10 a year, for 4 years. Patron—Frank Balfour, Esq., of Kindrogan, Pitlochry.

The Bursary, which is tenable for four years, "at any of the Scottish Universities, St Andrews in preference," is only open to those who have been educated at schools in the parish of Kirkmichael, Perthshire, and who are natives of that parish, or the adjoining parish of Moulin. Apply to Messrs J. & H. Mitchell, Solicitors, Pitlochry.

DUART. See Stewart (James).

DUNDAS.

Founded in 1734, by Laurence Dundas, Professor of Humanity in the University of Edinburgh. Two Bursaries: each about £33 a year, for 4 years. Patrons—(1) Admiral Dundas of Dundas, (2) Dundas of Arniston, and (3) Dundas of Carronhall, by turns.

Applications to be made to the agents for the respective Patrons—(1) Lindsay, Jamieson, & Haldane, C.A., 24 St Andrew Square, Edinburgh; (2) J. & F. Anderson, W.S., 48 Castle Street, Edinburgh; (3) Mackenzie & Black, W.S., 28 Castle Street, Edinburgh. One Bursary open June 1921: Patron, Admiral Dundas of Dundas.

1915, CHARLES DUNDAS (Admiral Dundas).

1917, ALAN J. KILGOUR (Dundas of Arniston).

1919, ROBERT P. CONSTABLE (Dundas of Carronhall).

DYKE. See Gillan.

FAIRBAIRN (JAMES).

Founded in 1887, by Mrs Kidd, of Palmyra, Aigburth, near Liverpool. One Bursary: £33 a year, for 4 years.

The Bursary was founded in memory of James Fairbairn, late Governor of Heriot's Hospital. The Bursar is required to take the Degree at the end of the Course. The Bursary cannot be held along with any other Bursary or Scholarship. See Deed of Foundation, p. 501 of CALENDAR, 1887-88.

1916, JAMES N. C. CLARK.

FETTES EXHIBITIONS.

These Exhibitions are each of the annual value of £60, and are tenable for four years. They are open annually for competition, one among the Foundationers alone, and the other among the Foundationers and such other pupils as have attended Fettes College regularly for not less than five years.

FORD. (One Bursary open June 1920.)

Founded in 1678, by Hector Ford of Braxton. Three Bursaries: each £10, 16s. a year, for 4 years. Patrons, the Town Council of Edinburgh. A preference is given to candidates of the surname of Ford, or, failing them, to youths born in the parishes of Dunbar and Innerwick, or "brought up and bred within the schools of these two parishes."

These Bursaries cannot be held along with any other Bursary in the University. Apply, in May, to the Town Clerk, Edinburgh.

1917, GORDON A. RYRIE.

1919, T. P. M'DONALD, J. N. W. HUNTER,

ALLAN G. ROIGER.

FORRES. See Gillan.

FOTHERINGHAM AND FORREST.

Founded in 1876, by J. Fotheringham of Heathpool. Two Bursaries: each about £31 a year, for 4 years.

The Bursaries are restricted in the first place to relatives of the Founder, in the second to such as are of the name of Fotheringham, and in the third place to such as are of the name of Forrest; and, failing all these, are awarded as open Bursaries. The successful candidate must take the Degree of M.A.

1917, MARION A. FORREST (*Preferential*).

1918, JAMES S. BROWN.

FRASER (DONALD). (Open June 1920.)

Founded in 1891, by Donald Fraser, M.D., London, and the Edinburgh University Endowment Association. One Bursary: about £50, for one year.

The Bursary is awarded annually for high merit in the University Class of Natural Philosophy, combined with proficiency in Laboratory Work. The Bursar is required to give assistance in the University Physical Laboratory, and to engage in research there. The Bursary cannot be held along with any other Fellowship, Scholarship, or Bursary in any Scottish University. See Deed of Foundation, p. 545 of CALENDAR for 1891-92.

1919, WILLIAM H. WATSON.

FRASER (THOMAS). (Open June 1920.)

Founded in 1768, by Thomas Fraser, Clerk in the office of Town Clerk, Edinburgh. Two Bursaries: each about £23 a year, for 7 years. Patrons, the Provost, Dean of Guild, and Treasurer of Edinburgh.

Bursars must take the Degree in the Faculty of Arts. The Bursaries are held for three years thereafter; the Bursars making their election whether to follow Divinity, Law, or Medicine. Two Classes at least must be attended each year. Open 1920. Apply, in May, to the Town Clerk, Edinburgh.

1918, C. C. KERR.

GILLAN. (Two Bursaries open 1919-20.)

Founded in 1878, by James Gillan, Draper, Forres. Three Bursaries: each £35 a year, for 7 years. Patrons, Mr Gillan's Trustees.

These Bursaries are for the support, at the University, and at the New College, Edinburgh, of two young men connected with the Parish of Forres, and one connected with Dyke, who have declared their intention to study for the ministry of the U.F. Church of Scotland. For particulars apply to Messrs R. & R. Urquhart, Solicitors, Forres.

GLENBUCK.

Founded in 1887, by Charles Howatson, Esq., of Dornel and Glenbuck. One Bursary: about £20 a year, for 3 years. Patrons, the Trustees.

The Bursary may be held by a Student (male or female) in any Faculty of any of the four Scottish Universities—preferably that of Glasgow or of

Edinburgh. Candidates must be under twenty-two years of age at the date of election; and only those are eligible who have resided not less than five years in the Parish of Muirkirk, and who have received part of their education at any school therein. For further particulars apply to Mr Jas. Caldwell, Inspector, Muirkirk.

GRANT. (Two Bursaries open October 1919.)

Founded in 1809, by Dr Donald Grant, London. Four Bursaries: each £45 a year, for 4 years. Patron, the Earl of Seafield, as Dr Grant's Trust; whom failing, the Senatus Academicus.

The Bursaries are tenable by male students in the Faculties of Arts, Science, Divinity, Law, or Medicine. Applications for information may be made to Messrs Mackenzie, Innes, & Logan, W.S., 25 Melville Street, Edinburgh.

1915, MALCOLM R. BAIN, FRANK M. STUART.

GRIERSON. (One £20 Bursary open June 1920.)

Founded in 1873, by the Grierson Trustees. Five Bursaries: one of £24 a year, and four of £20 a year, all tenable for 4 years.

The Bursaries are restricted in the first place to natives of either of the parishes of Crawford or Leadhills. In the event of there being more than one preferential Candidate, the examination is competitive. In the event of there being no preferential Candidates, the Bursaries will be thrown open for competition to all Students then intending to enrol in the University for the First Session of the Curriculum in Arts, the subjects of Examination being as for open Bursaries of the First Year. See Trust Disposition of Founder at p. 335 of CALENDAR for 1873-74, and p. 368 of the CALENDAR for 1877-78.

1916, JANET C. M'DOUGALL.

1918, ALISON E. FOSTER, J. W. STEWART.

1919, ALEXANDER YOUNG.

HARRISON. (Four Bursaries open June 1920.)

Founded in 1867, by Miss Hannah Harrison of Lasswade. One Bursary: about £31 a year, for 2 years.

The Bursary is open to Students in the *third* year of their course in the Faculty of Arts, with a view to a degree. The examination is in Classics, Mathematics, and Logic and Metaphysics. Open June 1920. See Deed of Endowment, p. 231 of CALENDAR for 1867-68.

HERIOT. (Open June 1920, as below.)

Founded in 16—, by George Heriot. (1) High School Bursaries (see below): each £30 a year, for 3 years. (2) Bursaries for men (see below): each £30 a year, for 3 years. (3) Bursaries for women (see below): each £20 a year, for 3 years. (4) One Bursary for a Woman Graduate at St George's Training College, Edinburgh: £30 for one year. Patrons, the Governors of George Heriot's Trust. The subjects of

examination for (1), (2), (3), and the choice of subjects, are the same as for Open Bursaries in Arts. No. (4) will be awarded on consideration of the need and the University record of the candidate. Under each of (1), (2), (3), three Bursaries, and under (4) one Bursary, may be awarded in June 1918. Schedules of applications for each of the above Bursaries may be had from the Clerk of George Heriot's Trust, 20 York Place, Edinburgh, on and after 26th April: to be returned by 20th May.

- (1) 1913, WILLIAM M. YEATTS, DONALD P. M'IVER, A. M'PHERSON.
 1914, JOHN G. BLACK.
 1915, A. L. SHEARER.
 1916, CECIL J. M. WEIR, EDWARD W. BURNES, WM. A. M'PHEE.
 1917, ANDW. G. W. M'BEATH, ANDW. GILMOUR, GEO. J. M. GRAY.
 1918, ADAM C. WHITE, WALTER M. FORSTER, R. PETERSON.
 1919, A. V. STEVENSON, GEORGE INGLIS, IAN C. SOMERVILLE.
- (2) 1913, ROBT. B. BENNETT, JOHN S. STEVENSON.
 1914, AUBREY M. W. HAWKS, JOHN INNES, ALEX. J. D. PORTEOUS.
 1915, W. M. WILSON, WM. A. D. HUNTER.
 1916, JOHN BUCHANAN, GEORGE WILSON, WILLIAM J. LINKLATER,
 JOHN M. LEWARS.
 1917, WM. H. WATSON, JAMES S. W. REID, GEORGE ROESON.
 1918, CHARLES J. ROBERTSON, ROBERT G. STRANG, JAMES YORSTON.
 1919, HUGH HARPER, OSWALD J. WALKER, HENRY W. GUTHRIE.
- (3) 1916, MARGARET B. A. MILLAR, CISSIE M. CALDER, CATHERINE
 S. M. HAYES.
 1917, JESSIE E. M. MUNRO, SUSANNE J. PATERSON.
 1918, ISABELLA W. WOOD, ISABELLA D. HEPBURN, ELIZABETH B.
 WATSON.
 1919, SIDNEY E. CROSKERY, GEORGINA M'LEAN, ELLEN REAY.
- (4) 1917, EDITH S. SOUTHALL, M.A.

HORSLIEHILL-SCOTT. (One Bursary open 1920.)

Founded in 1865, by Sir George Henry Scott Douglas, Baronet, and others. Two Bursaries: each about £58 a year, for 2 years.

The Bursaries are open to Students in the *third* year of their course for a Degree in Arts. The examination is in Classics, Mathematics, and Logic and Metaphysics. Deed of Foundation at p. 208 of CALENDAR for 1866-67.

1917, J. D. MABBOTT.

HOULDSWORTH (for Women).

Founded in 1873, by Miss M. M. Houldsworth. One Bursary of £20 a year for 3 years. Patrons, the Edinburgh Association for the University Education of Women. The Bursary is open to First Year Women Students intending to study for an Arts or Science degree; and the holder must reside at Masson Hall. The subjects of examination are those for First Year Bursaries. Apply by letter to Miss A. Hutchison Stirling, M.A., 30 Howard Place, not later than 12th June.

1918, MARGARET H. F. ROY.

HUME.

Founded in 1784, by William Hume, Eastbarns, Dunbar. Two Bursaries: each £10 a year (for years of tenure, see below). Patrons, the ministers of the Presbytery of Dunbar.

The Bursaries are tenable at any of the Scottish Universities. The Bursars must first enter the Humanity class: afterwards pass through the rest of the classes in Arts until their Laureation; at which time, if judged by the ministers of the Presbytery of Dunbar fit for the study of Theology, they may continue for two years in Theology.

INVERNESS-SHIRE (LONDON) ASSOCIATION.

Founded in 1903, by the London Inverness-shire Association. One Bursary: £18 a year, for 3 years. Patrons, the Inverness-shire Association.

The Bursary, which is open, in the first place, to natives of the County of Inverness, may be held at any Scottish University. The examination is as for First Year Open Bursaries, with Gaelic as one of the subjects. Failing preferential Candidates, the Bursary may, with the consent of the Patrons, be awarded to the Candidate who stands highest in the examination, and has at least obtained 50 per cent. of the available marks in Gaelic. Preferential Candidates to apply to T. L. MacLean, Esq., Hon. Sec., London Inverness-shire Association, 261 Queen's Road, Peckham, London, S.E.

JAMIESON.

Founded in 1846, by John Jamieson, Esq., Edinburgh. One Bursary: £26 a year, for 4 years. Patrons, the Principal and the Professors of Botany and Mathematics in the University.

The Bursary is for the benefit of the sons of schoolmasters, farmers, mechanics, and labourers, born and residing within any one of the following parishes—viz., Crawfordjohn, Crawford, united parishes of Lamington and Wandell, united parishes of Wiston and Robertson, Culter and Biggar. The Bursar may attend Classes in any of the Faculties. Apply to Messrs Pearson, Robertson, & Maconochie, W.S., 11 St Colme St., Edinburgh.

1918, ANDREW M'FARLANE.

JARDINE (BIDDER). (Open June 1920.)

Founded in 1846, by G. P. Bidder, C.E. One Bursary: £42 a year, for 4 years.

The Bursary was founded by Mr Bidder, as a memorial of the munificence of Sir Henry Jardine to him, to which he owed the advantage of his education at the University of Edinburgh. Candidates must be natives of Scotland. The recipient must be "of good character, of promising talent, and of known diligence," and must show "that he really requires aid, to enable him with ease to obtain a proper University education." Open 1920.

1916, NORMAN W. PORTEOUS.

JARDINE OF THORLIESHOPE.

(Three Bursaries open June 1920.)

Founded in 1887, by Charles Jardine of Thorlieshope. Eight Bursaries: each about £49 a year, for 4 years.

The Bursaries are open only to natives of the rural districts of Roxburghshire and Dumfriesshire (villages and towns of the population of 2000 and upwards being excluded), who have attended the Public or Board Schools in said counties. In the event of there being no first year Candidates, the Bursaries will be thrown open to Candidates of the second, third, or fourth year in succession, but will be tenable for one year only. The Bursars are required to take the Degree at the end of the Course. The Bursaries cannot be held along with any other Bursary or Scholarship. See Deed of Foundation, p. 497 of CALENDAR, 1887-88.

1918, CHRISTINA H. SMAIL, THOMAS M. TELFORD.
1919, W. A. M'KERROW.

JOHNSTON (ROBERT).

Founded in 1639, by Dr Robert Johnston of London. Four Bursaries:—(1) Two, each £24 a year, for 4 years; Patron, Hope Johnstone of Annandale. These are presentation, non-competitive Bursaries; and a preference is given to students from Dumfriesshire. (2) Two, each £12 a year, for 4 years; Patrons, the Town Council of Edinburgh.

(1) Apply Messrs Hope, Todd, & Kirk, W.S., 19 Charlotte Square, Edinburgh, agents for the Patron. (2) Apply, in May, to the Town Clerk, Edinburgh.

- (1) , BARBARA H. M. EASTON, AGNES E. M'CLEMENT.
(2) 1915, R. R. FAIRLEY.
1918, J. R. M'KAIN.
1919, C. E. R. BRUCE.

JOHNSTONE (ARCHIBALD).

Founded in 1619, by Archibald Johnstone, Merchant in Edinburgh. One Bursary: £12, 16s. a year, for 4 years. Patron, the Earl of Haddington.

The Bursary cannot be held along with any other Bursary in the University. Apply to Messrs D. & J. H. Campbell, W.S., 31 Moray Place, Edinburgh.

- 1914, D. A. G. HEATH.
1918, DOUGLAS S. MACDONALD.

JOHNSTONE OF HARTHOPE.

Founded in 1874, by Johnstone of Harthope. One Bursary: about £24 a year, for 4 years.

Natives of Moffat, Peebles, and Students of the name of Alexander or Johnstone are preferred (proof of eligibility to be produced). The successful candidate must take the Degree of M.A. See Deed of Foundation at p. 350 of CALENDAR for 1875-76. May be open in 1923.

- 1915, MARGARET S. MILLER.
1919, AGNES E. STEWART.

LAMBERT.

Founded in 1874, by James Lambert. One Bursary: £40 a year, for 4 years.

This Bursary cannot be instituted until after the death of an annuitant. See Deed of Foundation at p. 342 of CALENDAR for 1875-76.

LANARKSHIRE (UPPER WARD OF).

Founded in 1874, by the Edinburgh Upper Ward of Lanarkshire Association. One Bursary: £20 a year, for 4 years. Patrons, the Association.

Candidates must be natives of, or resident in, the Upper Ward of Lanarkshire, and must have received a certain portion of their education at an Upper Ward School. The Bursary is tenable in any of the Faculties.

Apply to J. Hamilton Craig, C.A., 98 Hanover Street, Edinburgh.

1914, ALBERT E. BLACKLEY.

1919, JOHN C. HODGSON.

LANFINE. (Open, as below.)

Founded in 1903, by Miss Martha Brown, Lanfine. Four Bursaries: each £40 a year, for 2 years.

The Bursaries, tenable for two years (but not after graduation, unless the Bursar is continuing to study with the approval of the Faculty), are awarded annually, one in each of two Honours Groups, in the following rotation:—1. English. 2. Modern Languages and Literature. 3. History. 4. Economic Science. 5. Classics. 6. Mental Philosophy. 7. Mathematics. Students shall be eligible after the completion of one academic year, or the first Winter Session, but not later than the beginning of the fourth academic year from date of first matriculation. Candidates must have attended two Classes (Ordinary or Honours) within their Honours Group.

The Subjects of Examination are as follows:—

In *English*: The first two papers in English Literature (Honours), i.e., the General Paper and Essay. (Open in June 1920.) In *Modern Languages*: The first two Honours papers in French and in German. (Open in March 1920.) In *History*: Either the two Honours papers in General British History, or the three in Constitutional History. (Open in June 1920.) In *Economic Science*: General questions in the Political Economy papers for the Honours Degree in Economic Science (excluding the questions on the special subjects), and the General paper in Economic History, and the Essay paper in the Economic Science Honours Degree. (Open in June 1920.) In *Classics*: The Honours papers in Composition, and unprepared Translation, and the General papers set for Classical Scholarships. (Open in March 1920.) In *Mental Philosophy*: Two papers in Logic and Metaphysics (or, alternatively, for one of these, a paper in Psychology), and one paper in Moral Philosophy. (Open in June 1920.) In *Mathematics*: The Intermediate Honours Examination in Mathematics and Natural Philosophy. (Open in June 1920.)

These Bursaries are not tenable along with any other University Bursary or Scholarship. For further information apply to J. J. Herdman, Esq., W.S., 6 Hill Street, Edinburgh.

1914, WILLIAM HENDERSON (*Modern Languages*).

1915, G. B. JATHAR (*Economics*).

LENNIE.

Founded in 1852, by William Lennie, Esq. Four Bursaries: each £12 a year, for 4 years.

Apply, in May, to the Town Clerk, Edinburgh.

1913, JOHN J. B. MARTIN.

1914, THOMAS R. SCOTT.

1915, R. S. MACDONALD.

1917, CHARLES T. KENNEDY.

1918, R. W. M. M'INTYRE.

1919, ALEX. NEILL, ROBERT A. BARCLAY.

M'DIARMID. (Open 1920.)

Founded in 1858, by the M'Diarmid Trustees, as a memorial of the late John M'Diarmid, Esq., Editor of the *Dumfries and Galloway Courier*. One Bursary: £10 a year, for 3 years.

Candidates must be natives of the County of Dumfries or the Stewartry of Kirkcudbright. Women are not eligible for this Bursary. Apply to Messrs Gordon & Whitelaw, Solicitors, Dumfries.

MACDONALD.

Founded in 1901, by William Macdonald, Publisher in Edinburgh. One Bursary: about £30 a year, for 3 years.

The Bursary is awarded on the Arts Bursary Competition, but the Bursar is free to select his Faculty. Preference is given to pupils attending the High School, Stranraer, or any High School in the Island of Skye: failing which latter, any High School in the County of Inverness. Failing a suitable preferential candidate, the Bursary shall be awarded as an Open Bursary. Open June 1922. See Excerpt from Disposition and Settlement, at p. 450 of CALENDAR, 1918-19.

1919, RICHARD J. HAY.

MACDOUGALL (JOHN and ISABELLA).

(May be open 1919-20—see below.)

Founded in 1883, by Isabella M'Dougall. Five Bursaries: £35 and £30 a year, for 3 years. Patrons, the Trustees.

Candidates must have been born within the county or city of Perth. The Bursaries are open to Students of Edinburgh, Glasgow, and St Andrews Universities. They cannot be held with any Bursary or appointment yielding upwards of £50 per annum. In the case of

Edinburgh University, students attending the Gaelic class are preferred. See Deed of Foundation at p. 435 of CALENDAR, 1885-86. Application to be made to Mr W. Cochrane Young, Solicitor, Perth. One Bursary of £35 and one of £30 at Edinburgh University will probably be open in 1919-20.

1915, H. GORDON SMITH, JAMES MACDONALD.

1916, JAMES STEWART, ALEX. GREY THOMSON.

M'GUFFIE. See Archibald or M'Guffie.

MACKENZIE (Stornoway). (Open June 1920.)

Founded in 1888, by Mrs H. E. Morrison (Mackenzie). One Bursary : £22 a year, for 4 years.

Candidates of the name of MacKenzie have a preference. The Bursary will be awarded to the Candidate who stands highest in the competition, provided he has passed the Preliminary Examination in at least two subjects, one of which must be Latin, Greek, or Mathematics on the Higher Standard. Failing a preferential Candidate, the Bursary will be thrown open to competition as a first year Bursary in Arts. The Bursar is required to take the Degree at the end of the course. For Regulations, see CALENDAR for 1895-96, p. 748.

1916, JAMES LESSELLS.

MACKINNON. (Three Bursaries open June 1920.)

Founded in 1883, by the subscribers to the Mackinnon Testimonial. Three Bursaries : each about £34 a year, for 3 years.

These Bursaries were founded to encourage the study of the Mechanical Sciences. Each Bursary is open for competition to Students entering their First Session in the Faculty of Arts. Candidates must be natives of the counties of Argyll, Bute and Arran, Inverness, Ross, or Sutherland, and must be able to speak the Gaelic language. The examination is held at the annual competition for Bursaries, with an additional examination in Gaelic by the Professor of Celtic; at least 10 per cent. of the total marks attainable being assigned to Gaelic. Each Bursar is bound to attend annually at least two classes in the Faculty of Arts during his tenure, and among these classes, at least one class of Mathematics, one of Natural Philosophy, and the class of Engineering. The Bursaries cannot be held along with any other Bursary, Scholarship, or Fellowship in a Scottish University,* or with any office yielding an annual income of £50 or upwards, and is tenable only during good behaviour and proficiency.

1913, JOHN MACINNES.

MACLAINE (GILLIAN). (Two Bursaries open Oct. 1919.)

Founded in 1878 by Angus MacLaine, Esq., of Fasadale, Argyllshire, in memory of his brother, Gillian MacLaine, merchant abroad. Two Bursaries : each £50 a year, for 3 years.

The Bursaries, tenable in any Scottish University, are open to Gaelic-speaking young men proposing to study for the ministry of the Church of Scotland. For Examination Syllabus, etc., apply to Very Rev. James C. Russell, D.D., 9 Coates Gardens, Edinburgh.

MACLAURIN. (Open June 1920.)

Founded in 1889, by Daniel Maclaurin, London. One Bursary: about £132 a year, for 4 years. Patrons, the Town Council of Edinburgh.

The Bursary is restricted to Students of the Founder's name of Maclaurin (or in Gaelic orthography, "Maclalhrin"). It may be held in any of the Faculties. See Deed of Foundation, p. 544 of CALENDAR for 1890-91. Apply, in May, to Town Clerk, Edinburgh.

1916, GEORGE M'LAREN.

MACLEAN (Col. ALEXANDER). (Open 1920—see below.)

Founded in 1895 by the Trustees of the late Col. Alexander Maclean. Four Bursaries: £25 a year, for 4 years.

The Bursaries are open to students of either sex, of the name of Maclean, entering on the Arts curriculum in any Scottish University, and are awarded by competitive examination held in Glasgow. Any Bursar who has held his Bursary throughout the three years' curriculum in the Faculty of Arts, and taken a degree in that Faculty, may continue to hold it during the fourth year in any other Faculty.

Forms of application can be received, in the month of April each year, from the Town Clerk, Glasgow, with whom applications must be lodged.

MAIR (for Women). (Open 1920.)

Founded in 1887, by Miss S. E. S. Mair and other subscribers. One Bursary of £20 a year, for 3 years. Patrons, the Edinburgh Association for the University Education of Women.

The Bursary is open to First Year Women Students intending to study for an Arts or Science degree; and the holder must reside at Masson Hall. The subjects of Examination are those for First Year Bursaries. Open 1920. Apply by letter to Miss A. Hutchison Stirling, M.A., 30 Howard Place.

1917, MARY J. MCNAB.

MANN.

Founded in 1886, by Peter C. Mann, of Nairn and Durham. Three Bursaries: each about £35 a year, for 3 years.

Candidates must be children of residents in the town of Nairn, *i.e.*, one or both parents must have resided within the municipal boundaries for at least twelve months, at any period prior to the competition. One Bursary will be awarded annually. The award will be to a candidate matriculating for the first time in this University; or, failing candidates of the first year,

as a second year Bursary to the candidate who obtains the highest marks in the Bursary Examination for the second year ; or, failing candidates of the first and second years, it will similarly be awarded as a third year Bursary. When awarded to a second or third year student, it is tenable for one year only. Failing candidates qualified under any of these rules, the Senatus may continue one of the Bursaries to its holder for a fourth year, provided he propose to continue his studies for a fourth year in some special subject. Each Bursar must be *bond fide* engaged in studying for a Degree in Arts or in Science. See Deed of Foundation, p. 497 of CALENDAR, 1887-88, and Regulations at p. 544 of CALENDAR for 1890-91.

1917, JEANNIE K. DUNCAN.

1918, DORA F. M. ROSE, ROBERT MACINNES.

MARSHALL.

Founded in 1875, by Robert Marshall. One Bursary: about £48 a year, for 4 years.

The Bursary is open in the first place to relatives of Founder ; whom failing, in the second place to Students of the name of Marshall ; and in the third place to natives of West Lothian. See Deed of Foundation at p. 347 of CALENDAR for 1876-77.

1919, SYBIL M. FOSTER.

MASTERTON MEMORIAL.

Founded in 1901, by the United Free Church (Masterton Memorial). One Bursary : £30 a year, for three years. Patrons, the Society for Sons and Daughters of Ministers of the United Free Church of Scotland.

The Bursary is for the benefit of sons and daughters of ministers and missionaries of the United Free Church. Candidates, who must have within three previous years received grants from the above Society, may take the Bursary Examination in four, but not more than four, subjects, one of which must be either French or German. The Bursary will not be awarded to any Candidate who has not passed the Preliminary Examination (including either Latin or Greek on the Higher Standard, and either French or German) with a view to Graduation. For further information apply to Mr W. G. C. Hanna, C.A., 4 Melville Street, Edinburgh.

1919, RUTH CONOCHIE.

MAULE.

Founded in 1890, by the Rev. Thomas Maule. Four Bursaries: each about £22 a year, for 6 years. Patrons, the Principal of the University, and the Professors of Humanity and Greek.

These Bursaries are for the education of poor and deserving Students. They may be held by Students prosecuting their studies in any of the Faculties. The successful candidate will be required to produce a certificate regarding his circumstances and character from some person

of standing to whom he is known. See Excerpt from Trust Deed, p. 543 of CALENDAR for 1891-92, and Deed of Foundation, in CALENDAR for 1894-95.

1916, ALISDAIR MACINNES, ELIZA. M. PYPER.

1917, KARL V. M. FERGUSON.

1918, HELEN F. M'TAVISH, ELIZABETH B. HUNTER.

MENZIES. (Open 1920—see below.)

Founded in 1837, by James Menzies, Esq., Glasgow. Four Bursaries: £45 a year (see below), for 4 years. Patrons (*pro tem.*), the ministers of Dull, Weem, and Fortingall.

The Bursaries vary in value at the discretion of the patrons, and are tenable in any one of the Universities of St Andrews, Glasgow, or Edinburgh. Preference is given first to the relations of the Founder; next to the name of Menzies; failing whom to persons born on the estates of Menzies, within the parishes of Dull, Weem, and Fortingall; failing whom, any Student who shall be found best qualified may be appointed. Candidates must pass the Preliminary Examination. One Bursary is open each year. Apply to John Rhind, Secretary to Bursary Trust, Schoolhouse, Dull, Aberfeldy.

1915, ALISTER J. M'LAREN.

1916, JAMES F. MENZIES.

1917, C. D. RODGER.

1918, ALEXANDER PURDIE.

MILLAR.

Founded in 1784, by the Rev. James Millar and Spouse. One Bursary: £23, 12s. a year, for 4 years. Patrons, the Kirk-Session of Kippen.

The Bursary is to be held by a Student intended for the ministry in the Church of Scotland, during his Curriculum in the Faculty of Arts. Application should be made to the minister of Kippen.

1915, JOHN J. ROBB.

MITCHELL AND SHORTT.

Founded in 1723, by Alexander Mitchell and James Shortt. One Bursary: about £33 a year, for 4 years. Patrons, Livingston Learmonth of Parkhall, and his heirs; the Earl of Morton, and his heirs.

The Bursary is awarded in Open Competition, no special entry being necessary.

1918, HENRY T. DEAS, URSULA D. HERDMAN.

MORAYSHIRE CLUB.

Founded in 1912, by the Edinburgh Morayshire Club. One Bursary: £20 a year, for 3 years (but the period may be extended). Patrons, the Club.

The Bursary is open to students entering on a graduation curriculum in Arts, Science, or Medicine. Candidates must be deserving children, natives of the County of Moray, and must have attended a school or schools within the county for at least five years immediately prior to the date of competition. Apply to A. S. Calder, 17 Hill Street, Edinburgh.

1919, JEANIE M. CAMPBELL.

MUIRHEAD-AITKEN. (May be open June 1920—see below.)

Founded in 1915 by Alexander Muirhead Aitken, Barrister-at-Law, Pitlochry. Patrons, the Trustees of Bathgate Academy.

One Bursary of £30 a year, tenable for one year, with power to the Patrons to continue it for two or three years. The Bursary is open to pupils of both sexes attending Bathgate Academy, who intend to proceed to graduation in any of the Faculties at the University of Edinburgh. It is awarded on the ordinary Arts Bursary Examination, and the subjects of examination are English, Latin, French, and Mathematics. Apply to Messrs Scott Moncrieff, Thomson, & Shiells, 141 George St., Edinburgh.

1917, JAMES DOBBIE.
1918, JOHN LOWE.
1919, THOMAS DAVIDSON.

NAIRN. (Open June 1920.)

Founded in 1903, by the late Sir Michael B. Nairn. Four Bursaries: each £25 a year, for 4 years. Patrons, the School Board of Kirkcaldy and Dysart.

The Bursaries are to be competed for by pupils who have been in attendance at Kirkcaldy High School for the two years immediately preceding the date of the examination; and they are tenable for four years at any Scottish, English, or Foreign University, or any Technical College. One Bursary is offered for competition each year; and it is awarded on the results of the Edinburgh University Bursary Examination, at which all candidates for the Bursary must appear.

1914, WM. M. FAIRWEATHER.
1915, V. W. MAXWELL.
1916, KATE Y. PEARSON.
1917, NELLIE R. K. WALKER.
1918, DOROTHY J. ANDERSON.
1919, D. A. M'CREA.

NAIRN (TOWN OF). See Mann.**NEWTON.** (Open 1920.)

Founded in 1886, by Robert C. Newton of Castlandhill. Four Bursaries: each about £25 a year, for 2 years.

Two Bursaries are awarded annually, one to the most distinguished Student in the Class of Natural Philosophy, and one to the most distinguished Student in the Second Ordinary Class of Mathematics. The Bursaries are tenable for two years, and the Bursars must continue their studies in the higher branches of the subjects of their Bursaries, and, at the end of the second year of tenure, either take Honours in Mathematics and Natural Philosophy, pass the 2nd B.Sc. Examination, or give other evidence of advanced study in Mathematics or Natural Philosophy. The Bursar is required, during his tenure of the Bursary, unless specially

dispensed for reasons approved by the Senatus, to act as a student demonstrator in one of the classes of Natural Philosophy or Mathematics respectively, for not more than two hours per week during not more than twenty weeks of one academic year. See Deed of Foundation, p. 460 of CALENDAR, 1886-87.

1915, SAMUEL ALLEN (*Math.*).
 1918, JAMES HENDERSON (*Math.*).
 WM. H. WATSON (*Nat. Phil.*).

ORKNEY AND ZETLAND.

Founded in 1873, by the Earl of Zetland. One Bursary: £40 a year, for 3 years. Patrons, the Trustees of the Earl of Zetland.

The Bursary is open to first year Students (male or female), natives of the Islands or County of Orkney and Zetland, or children of parents one or both of whom have been born in, or connected for a long period of years with, the said islands or county. Open June 1921. Applications to be sent to Messrs Dundas & Wilson, C.S., 16 St Andrew Square, Edinburgh, not later than 31st May. The Deed of Foundation will be found in CALENDAR for 1873-74, p. 329.

1919, ROGNVALD G. HEDDLE.

See also ZETLAND (MARQUIS OF), p. 322.

PATRICK.

Founded in 1860, by William Patrick, Esq., of Roughwood. Three Bursaries: each about £45 a year, for 4 years. Patrons, the Principal and the Professors in Arts.

The Bursaries are for the assistance of those who have completed a course of education at any of the public schools or academies in the County of Ayr where a course of Classical Study is pursued. The rectors or head teachers of each of said schools or academies may grant a certificate or letter to any number, not exceeding four, of the best scholars who have completed their course of education at such school or academy, and are in a position to enable them to apply for admission to the University; and the parties holding such letters or certificates are entitled to present themselves for examination as candidates for the Bursaries. Failing qualified candidates, the Senatus may award by open competition. See p. 197 of CALENDAR for 1865-66.

1916, JOHN D. FORBES.
 1917, BERTHA M. BUTTERS.
 1918, JESSIE RODGERS, EFFIE MACKAY.

PATTERSON. (Open June 1920.)

Founded in 1880, by the Rev. John Patterson. One Bursary: about £16 a year, for 2 years.

This Bursary, in Anglo-Saxon Grammar and Literature, is open to Students in the *second, third, or fourth* year of their Matriculation, who have attended the class of Rhetoric and English Literature. The holder must produce a Certificate of Attendance on the Honours Course in English Language in the first Session after his appointment. The examination will include Anglo-Saxon Grammar, Translations of passages of Anglo-Saxon prose and verse, and the History of Anglo-Saxon Literature. See Deed of Foundation at p. 379 of CALENDAR for 1880-81.

PEEBLESSHIRE.

Founded in 1863, by the Peeblesshire Society. One Bursary: £20 a year, for 3 or 4 years. Patrons, the Society.

The Bursary is open to Candidates of either sex (not necessarily entrants to the University) who are connected with Peeblesshire by birth, or education in the County, and who intend to pursue the curriculum in Arts, Science, Law, or Medicine. When vacant, the Bursary is advertised in the *Scotsman* and other papers in May, and Rules and Regulations and Schedules of Application may be had from P. H. Cosens, W.S., 53 Frederick Street, Edinburgh.

PENMAN.

Founded in 1678, by John Penman, Bailie and Merchant, Edinburgh. One Bursary: about £19, 10s. a year, for 4 years. Patrons, the Society for the Benefit of the Sons of the Clergy.

The holder must be the son of a Minister of the Church of Scotland; and he must attend the Classes in the Arts Curriculum. Apply to John A. Trail, LL.D., W.S., Secretary of the Society, 28 Rutland Square, before 30th June.

1918, ALISON MARGARET GORDON.

PRINGLE AND WARDROP.

Founded in 1703 and 1725, by James Pringle of Torwoodlee, and William Wardrop, Litster, Edinburgh, respectively. One Bursary: £26 a year, for 4 years. Patrons, Pringle of Torwoodlee, and J. C. Wardrop, W.S., alternately.

The Bursary is awarded in Open Competition, and no special entry is needed.

1915, C. M. TAYLOR.

1919, ARCHIBALD H. CAMPBELL.

RAMSAY (Sir A.).

Founded in 1687, by Sir Andrew Ramsay of Abbotshall. One Bursary: £10, 16s. a year, for 4 years. Patrons, the Town Council and Ministers of Edinburgh.

The Bursary may not be held along with any other Bursary, Fellowship, or Scholarship of any Scottish University. Open 1923. Apply, in May, to the Town Clerk, Edinburgh.

1915, JOHN F. MACKENZIE.

1919, A. W. HARDIE.

RENTON. (Open June 1920.)

Founded in 1883, by William Renton, Edinburgh. One Bursary: about £19, 10s. for 1 year. Patrons, the Professors of Mathematics, Natural Philosophy, Chemistry, and Political Economy.

The Bursary, which is open annually, is not restricted to Students of the first year. The holder must attend one or more of the classes of Natural Philosophy, Mathematics, Chemistry, or Political Economy. Pecuniary circumstances will be taken into consideration. It cannot be held by anyone under the age of sixteen or above twenty-one, or with another Bursary of the annual value of £30 or upwards. The examination is in English and Mathematics, as for the First Year Bursaries.

1919, JOHN ROY.

RHIND. See Caithness.

ST GEORGE'S TRAINING COLLEGE. See Appendix.

SCOTT (Sir WALTER). See Border Counties.

SIBBALD. (Two Bursaries open June 1920—see below.)

Founded in 1871, by Dr J. Robertson Sibbald. Five Bursaries: each £30 a year, for 3 years. Patrons, the Trustees of Dr Sibbald.

The Bursaries are tenable by male Students in the Faculties of Arts, Science, Medicine, Law, or Divinity, and are open to Students entering the University who have not previously attended any University in the United Kingdom or elsewhere, and who do not hold any other Bursary or Scholarship; but it will be no objection to a Candidate that he has, during the Summer Session, attended any of the Classes in the University of Edinburgh required by the Faculties of Medicine or Law. See CALENDAR for 1888-89, pp. 171 and 177. Application to be made to Messrs Mackenzie, Innes, & Logan, W.S., 25 Melville Street, Edinburgh, not later than 1st June.

1915, G. F. DAVIDSON, JOHN MABBOT.

1916, CHARLES H. SAROLEA.

1917, NOEL J. G. SMITH, IAN W. M'INNES.

1918, WM. A. WATSON, WM. D. BERTRAM.

1919, THOMAS WATT.

SIMSON (Dunbar). (Open 1919-20.)

Founded in 1869, by James Simson. One Bursary: £21 a year, for 3 years. Patrons, the Minister and Kirk-Session of Dunbar.

The Bursary is tenable at any of the Scottish Universities. Preference is given to a native of Dunbar attending College in the prospect of becoming a minister of the Established Church of Scotland, or going abroad as a missionary. Failing a native of Dunbar, the Kirk Session may grant the Bursary to any applicant whom they may approve. It may be continued for a period not exceeding three years. Candidates to apply to the Session Clerk, Dunbar Parish Church.

SIMSON (Edinburgh). (Open 1920.)

Founded in 1889, by James Simson, Edinburgh. Twelve Bursaries: each £25 a year, for 3 years. Patrons, the Presbytery of Edinburgh.

The Bursaries are open to Students who, having passed the Preliminary Examination, are entering on the first year of the Course in Arts, and are studying for the Ministry of the Church of Scotland. The examination is in New Testament Greek, and takes place in October. For further particulars apply to the Rev. William Main, 11 Fountainhall Road, Clerk to the Presbytery of Edinburgh.

SPENCE. (Open 1920.)

Founded in 1867, by the Rev. John Spence. Four Bursaries (values, etc., stated below). Patrons, the Governors of the Spence Bursary Trust.

By the regulations of the Governors, two Bursaries, each of the annual value of £30 for the first year and £40 for the second year of tenure, are open annually to Students of either sex who, after passing the preliminary examination, or such other examination as may from time to time be accepted by the Joint Board of Examiners as equivalent thereto, have attended one Winter Session or its equivalent in the Faculty of Arts in the University of Edinburgh, and have attended at least two classes qualifying for Graduation, and who intend to complete the course of study for the degree of Master of Arts at the University. The Bursaries are not tenable with any other Bursary or Scholarship. The Governors may award to any Bursar, if they are satisfied of his or her merit, a continuation Bursary of an annual value of £50, tenable for one year, on condition that the Bursar shall for that year attend such a curriculum of study in any of the Faculties as the Governors may approve. Subjects of Examination are Latin, Greek, and Mathematics. Candidates apply to Henry A. Pattullo, Solicitor, 1 Bank Street, Dundee, Factor to the Trust, for particulars; and applications must be lodged with him before 1st September. Candidates will be examined, in the latter half of that month, by an Examiner appointed by the Governors.

STEWART (JAMES).

Founded in 1899, by James Stewart, Duart. One Bursary: £35 a year, for 3 years. Patrons, the Kirk-Sessions of Callander and Trossachs.

The Bursary is open to natives of the parishes of Callander or Trossachs, studying in any Scottish University with a view to taking the Degree of M.A.

STRANG STEEL. See **Border Counties.**

STUART. (Two Bursaries open June 1920.)

Founded in 1810, by the Rev. James Stuart. Two Bursaries: each about £22, 8s. a year, for 3 years.

The Bursaries are open to Students entering upon the *second year* of their course for graduation in Arts or in Pure Science. They are tenable for three years, provided that if the holders graduate at the end of their second year of tenure they shall only retain their Bursaries for a third year if they engage in a course of study approved by the Senatus Academicus in subjects included in the Curriculum for Degrees in Arts or in Pure Science.

THOMSON. (One Bursary open June 1920.)

Founded in 1878, by Dr Andrew Thomson. Four Bursaries: each £25 a year, for 4 years. Patrons, the Trustees of Dr Thomson.

Candidates of the name of Thomson or Traquair, or natives of Town or County of Dumfries or City of Edinburgh, are preferred. Women are not eligible for the Bursaries. See Deed of Foundation, p. 367 of CALENDAR, 1877-78, and Scheme of Allocation, p. 346 of CALENDAR, 1879-80. Applications to be made to Messrs Traquair, Dickson, & MacIaren, W.S., 11 Hill Street, not later than 12th June.

1916, GEORGE J. R. MACAULAY.

1917, JOHN S. MACPHERSON.

1918, JAMES MATSON.

1919, JAMES B. THOMSON.

TROTTER AND PENMAN.

Founded in 1664 and 1765, by John Trotter of Mortonhall, and Rev. J. Penman of Bothkennar. One Bursary: £12, 14s. a year, for 4 years. Patrons, Trotter of Mortonhall, and Gilmour of Craigmillar, alternately. This Bursary cannot be held along with any other Bursary in the University. Open in 1923: patron—Gilmour of Craigmillar.

1915, JAMES CROOKS.

1919, WILLIAM MARSHALL.

VICTORIA JUBILEE (for Women).

Founded in 1887 by His Excellency Dr Gunning. One Bursary of £30 for 1 year. Patrons, the Edinburgh Association for the University Education of Women.

The Bursary is open to Women Students entering on their *fourth* session, who desire to graduate in Arts (Honours) or Science; and the holder must reside at Masson Hall. It is awarded, without examination, to the candidate who, in the opinion of the Executive Committee, best fulfils the conditions of the Trust. Open October 1920. Apply by letter to Miss A. Hutchison Stirling, M.A., 30 Howard Place, Edinburgh, before 15th February 1920.

1919, MARGARET L. FAIRBAIRN.

WEIR, JENKINS, HEPBURN, AND LIGHTBODY.

Founded in 1642, 1653, 1696, by Weir, Jenkins, Hepburn, and Lightbody. One Bursary: £11, 2s. a year, for 4 years. Patrons, the Town Council of Edinburgh (1st and 2nd Presentations), Campbell of Aberuchill (3rd Presentation). Open in 1921.

Apply, in May, to the Town Clerk, Edinburgh.

1913, ROBERT RAWSON.

1917, JAMES M. STAGG.

WELSH (JOHN).

(Open June 1920—see below.)

Founded in 1881, by Thomas Carlyle. Eight Bursaries: each £20 a year, for 4 years.

The Bursaries, founded by Thomas Carlyle, in memory of his Father-in-law, to whom the estate of Craigenputtock in Dumfriesshire, bequeathed by Mr Carlyle to the University of Edinburgh, formerly belonged, are paid from the rents of that estate. They are awarded to Students entering the University who have not studied in any other University. Four are to be given to the competitors most proficient in Mathematics, and four to those most proficient in Classics. For the former, the subject of examination is Mathematics, especially Pure Geometry (Euclidean Geometry, Modern Pure Geometry, Elementary Solid Geometry, and Conic Sections treated geometrically). What will be looked for is, not so much exhaustive knowledge of all the more intricate theorems, as a thorough knowledge of such as are more elementary and fundamental in their character, and ability to apply these in fairly straightforward exercises. For the latter, the subjects of examinations are Latin, Greek, and English. They are not to be held with any other Bursary. See Deed of Foundation at p. 379 of CALENDAR for 1881-82. A Classical Bursary and a Mathematical Bursary may be awarded annually.

1913, DAVID MILNE	} Classical.
1917, JOHN CAMERON	
1918, JOHN A. MILNE	
1919, ROGER H. HEYWORTH	
1917, JAMES HENDERSON.	} Mathematical.
1918, A. S. R. INGLIS	
1919, ISABEL MURRAY	

WHITELAW. (One Bursary open June 1920.)

Founded in 1882, by James Whitelaw. Three Bursaries: each about £27 a year, for 3 years.

The Bursaries are open to Students about to enter, or who follow the Curriculum in Arts; and they cannot be held along with any other Bursary, Scholarship, or Fellowship in a Scottish University, or with any office yielding £50 annually, or upwards.

1916, DAVID G. D. M'RITHER, ROBERT M. EDIE.

1917, ROBERT SCHLAPP.

1919, AGNES F. M'DONALD, JOANNA I. MASON.

WIGHT, M'CALL, AND CHRISTIE.

Founded in 1626, 1629, 1640, 1726, by Hugh Wight, David M'Call, and David Christie. One Bursary: £12, 14s. a year, for 4 years. Patrons, the Town Council of Edinburgh.

This Bursary cannot be held along with any other Bursary in the University. Open in 1923. Apply, in May, to the Town Clerk, Edinburgh.

1915, JAMES A. BROWNLEE.

1919, W. M. DAY.

ZETLAND (MARQUIS OF). (Open June 1920.)

Founded in 1877, by the Earl of Zetland. Three Bursaries: each about £40 a year, for 3 years. Patrons, the Trustees.

These Bursaries are open to First Year Students (male or female) in the Faculty of Arts, who are natives of the Islands or County of Orkney and Zetland, or children of parents, one or both of whom shall have been born in, or connected for a long period of years with, the said Islands or County. Candidates must either have been wholly educated in the Islands, or, at least, they must not have received any education elsewhere within four years. For Deed of Foundation of these Bursaries, see p. 373 of CALENDAR for 1877-78. One Bursary is open annually. Application to be made to Messrs Dundas & Wilson, C.S., 16 St Andrew Square, Edinburgh, not later than 31st May.

1917, MARY W. SMITH.

1919, JOHN H. SCOTT.

ZETLAND (for Women).

Founded in 1883, by the Earl of Zetland. One Bursary of £20 a year, for 3 years. Patrons, the Edinburgh Association for the University Education of Women.

The Bursary is open to First Year Women Students intending to study for an Arts or Science degree; and the holder must reside at Masson Hall. The subjects of examination are those for First Year Bursaries. Apply by letter to Miss A. Hutchison Stirling, M.A., 30 Howard Place, not later than 12th June.

1919, DORA FLEMING.

III. Prizes, etc.

(ARRANGED ALPHABETICALLY.)

Note.—The values are stated *approximately*.

BLACKIE CELTIC PRIZE. (Open October 1919.)

This Prize of about £90, for promoting the study of the Celtic Language and Literature, is open triennially in October to Matriculated Students of the University, and to Graduates of any Scottish University, under the age of 30 and within six years of the date of their graduation. The examination is in the Gaelic Language and Literature, and, if the examiners think fit, also in any other branch of the Celtic language. See Regulations at p. 828 of CALENDAR for 1900-1901.

BRUCE OF GRANGEHILL AND FALKLAND'S PRIZE IN THE CLASSES OF LOGIC AND METAPHYSICS. (Open 1920.)

This Prize of £20 (with a supplementary Prize of £10 for the Junior Division of the Class) is awarded annually to the most distinguished student in this class, "on such conditions and competition as the Professor may direct, and on his decision," for excellence in the study of Logic and Metaphysics. It was founded in 1865, by Mrs Tyndall Bruce of Grangehill and Falkland, in commemoration of John Bruce, Professor of Logic and Metaphysics in the University, 1774-86.

1919, LOUIS A. REID, M.A.

BUTCHER MEMORIAL PRIZE IN GREEK. (Open 1920.)

This Prize, of about £5, the proceeds of a sum gifted by an anonymous donor, is awarded annually to the best student in the Ordinary Greek Class.

1918, MARY J. M'NAE.

1919, ALEXANDER JENKINS.

CARNEGIE ESSAY PRIZE.

(1.) In order further to encourage post-graduate study and research within the departments of History, Economics, and Modern Languages and Literature, the Executive Committee of the Carnegie Trust offer a Prize of £100 for annual award, along with the other awards under their Research Scheme, for the best Essay or Thesis on a subject within those departments. (2.) The Prize will be open each year for competition among graduates of the Scottish Universities who have not been Fellows or Scholars under the Trust. (3.) The Committee reserve the right in any year to withhold, divide, or supplement this Prize as they may see fit. (4.) Award will be made only where the Essay is judged worthy of publication as an original contribution to learning; and in making an award the Committee may lay down such conditions regarding publication as they may see fit. (5.) Essays must be lodged on or before 15th April in each year, with the Secretary of the Trust, The Merchants' Hall, Edinburgh.

COUSIN PRIZE. (Open 1920.)

This Prize, founded in connection with the Class of Fine Art by the late David Cousin, Esq., is of the annual value of about £15, and is awarded at the close of each session for proficiency in Class Essays set from time to time by the Professor. See Excerpt from Mr Cousin's will in CALENDAR, 1880-81, p. 380.

1918, {HILDA M. A. KNOTT}
 {LOUIS A. REID} equal.
 1919, JESSIE GALLOWAY.

CRUM BROWN MEDAL. (Open 1920.)

The contributors to the Crum Brown Portrait Presentation Fund handed over the surplus of the fund to the University Court for the purpose of awarding annually a silver Medal in the Chemistry department. The Medal is given to the most distinguished student in the Elementary Arts and Science Class.

1918, JAMES HENDERSON.
 1919, THOMAS R. PATERSON.

GEOGRAPHICAL (ROYAL SCOTTISH) SOCIETY MEDAL.

(Open 1920.)

The Scottish Geographical Society gives a silver medal annually to the student who gains the first place in the merit list in the ordinary class of Geography.

1918, JOAN M'DONALD.
 1919, WILLIAM F. GILLIES.

GLADSTONE MEMORIAL PRIZE IN HISTORY, POLITICAL SCIENCE, AND ECONOMICS. (Open 1920.)

This Prize, of the value of £5 in books, is awarded annually to the student who, in the opinion of the Professors of History, the Professor of Political Economy, and the Professor of Public Law, has obtained the highest distinction within the two preceding years in any two of these subjects. A student to whom the Prize has been awarded will not be re-eligible. Applications, with the necessary Certificates, to be lodged with the Clerk of Senatus not later than 17th June.

- 1918, {VYVYEN A. PRAIN, M.A.
HELEN THOMSON, M.A.} equal.
1919, ANNA A. W. RAMSAY.

GRAY PRIZES. (Open Sept. 1919.)

The Gray Prize Essay Fund was instituted in 1851, in terms of the Will of Simon Gray, Esq., of Mornington Crescent, London. The subject for 1919 is "The Problem of National Reconstruction, and how best to solve it." For further particulars, see notice boards, or apply to Thomas More, Esq., 12 Newtown Street, Duns, Secretary to the Trustees.

- 1916, VYVYEN A. PRAIN.
1917, {JESSIE H. THOM
MARGARET M. W. STUART} equal.
1918, ALICE M. MACIVER, JAMES SCOTT DUNBAR.

ELIZABETH HAMILTON PRIZE. (Open 1919.)

This Prize of £5 is offered, in alternate years, to the best Woman Student in the Ordinary Classes of Logic and Moral Philosophy, provided that her standing be not below that of the First Class Certificate. In 1920 the Prize will be open in Moral Philosophy.

- 1918, {CECILIA M. CALDER
ELIZABETH C. K. HEWAT} equal (Moral Philosophy).
1919, URSULA D. HERDMAN (Logic).

HUME BROWN PRIZE IN SCOTTISH HISTORY.

The Prize, of the value of about £65, shall be awarded annually to the author of the best essay on a prescribed subject connected with Scottish History. The examiners shall be the Professor of Scottish History in the University of Glasgow, the Sir William Fraser Professor of Ancient History in the University of Edinburgh, and an additional examiner appointed each year by the University Court of the University of Edinburgh. The essays shall be lodged each year with the Secretary of Edinburgh University not later than 31st March. Each year, with the

award of the Prize, the examiners shall announce the subject for the next year but one. Competition for the Prize is open to all persons who have passed all the examinations for the Degree of Master of Arts at one of the Scottish Universities, provided that at the time of sending in their essays not more than seven years have elapsed since the time of their first entering a class qualifying for the M.A. Degree, and who have not already gained the Prize. The first award of the Prize shall be in 1921, and the subject for the Prize will be announced not later than 31st March 1920.

KELLAND MEMORIAL PRIZE. (Open 1920.)

The Committee for promoting a Memorial to the late Professor Kelland handed over to the University the sum of £147, 10s., for the purpose of founding a Prize to be called the "Kelland Memorial Prize," awarded annually in June. The Examination is on Higher Geometry. The Prize is of the value of about £4, 10s. Students who made a complete attendance on the ordinary Mathematics Class for the first time in the previous year will alone be eligible to compete for the Prize. Names to be entered by 12th June.

1918, WM. H. WATSON.

1919, (No award.)

LORD RECTOR'S PRIZE.

The Lord Rectors since 1879, during their respective tenures of office have offered a Prize of Twenty-five Guineas annually, for the best Essay on a Historical Subject.

The subject for 1919-20 is "Nationalism and Super-Nationalism"; and the competition is open to all Graduates whose graduation was not earlier than October 1914. Essays must be lodged with the Secretary of the University, not later than 10th January 1920.

NAPIER MEDAL IN MATHEMATICS. (Open 1920.)

A Medal, commemorative of the discoveries of John Napier of Merchiston, to be awarded annually in the department of Mathematics, was instituted in 1914, by the gift of W. W. Rouse Ball, Esq., Fellow of Trinity College, Cambridge. It is awarded, on the recommendation of the Professor of Mathematics, to the student who is most distinguished in Mathematics in the Final Honours Degree Examination.

1919, THOMAS A. LUMSDEN, B.Sc.

NAVY LEAGUE PRIZES. (Open 1920.)

These Prizes, open to matriculated students of any of the Universities of Great Britain, are offered for essays of sufficient merit upon "Operations in the Baltic against Napoleon and his Allies, 1803-1814, with special

reference to their influence on the course of the War." The First Prize consists of a Gold Medal and, in addition, a sum of £100; and there are Second and Third Prizes of £50 and £25 respectively. Essays of outstanding merit—but not awarded a prize—will receive honourable mention. The essays should, if possible, be typewritten, and of not more than 3000 words in length. Original manuscript materials may be used, but the examiners do not desire that the essay should be merely a research monograph. Preference will be given to essays which, based on sound sources of information, are also original contributions to the study of Sea Power and its importance in International Policy. All references to, and quotations from, books should be clearly marked. Each essay should be accompanied by a signed declaration that the essay is the candidate's unaided work. All essays must reach the Examination Council, Navy League, 13 Victoria Street, London, S.W. 1, before 30th April 1920.

SCOTT AND DUNBAR PRIZE. (Open 1920.)

This Prize, of the value of £15, was founded in 1872 by the Rev. Hew Scott, D.D., of Anstruther Wester, for encouraging the study of the Greek Language in the University of Edinburgh. It is awarded annually to "the most deserving and learned student in the Greek Classes," after such Examination as may be directed by the Principal and the Professors of Divinity, Greek, and Humanity. See Deed of Foundation at p. 332 of CALENDAR, 1873-74.

1919, JOHN C. M'IVER, M.A.

BURSARY EXAMINATIONS, ETC., AND GENERAL CONDITIONS OF CANDIDATURE FOR, AND TENURE OF, BURSARIES.

Candidates for Open (Non-preferential) Bursaries in general do not require to specify any of the Bursaries in the List. It should, however, be noted that in several cases separate entry has to be made with agents and others, outside of the University.

Bursaries are awarded on the results of the University Bursary Examinations, unless it is otherwise stated; and they are tenable at the University of Edinburgh only. The Senatus reserve the power, under Section XIII. of Ordinance No. 57, as amended by Ordinance No. 9 of Edinburgh University Court, to award First Year Bursaries in Arts in respect of exceptional distinction in any one branch of study.

For Bursary and other purposes, where the phrase "First Year's Student in Arts or Pure Science" is not by Deed of Foundation or otherwise defined, it shall mean "A Student in Arts or Pure Science who has not attended any class qualifying for Graduation in the said Faculties in any Scottish University."

First Year Bursary Examination.

*Candidates must enter their names between 9th and 12th June.*¹

1. The subjects of examination are:—

- | | |
|-----------------------------|----------------------------------|
| 1. Latin. | 7. History (see below). |
| 2. Greek. | 8. Italian. |
| 3. Mathematics (see below). | 9. Spanish. |
| 4. French. | 10. Celtic. |
| 5. German. | 11. Natural Science (see below). |
| 6. English. ² | |

2. The full marks for each subject are 100.

3. Every candidate may take up four different subjects, but must select at least two from the following list of four alternatives:—

- | | |
|-----------|----------------------|
| 1. Latin. | 3. Mathematics. |
| 2. Greek. | 4. French or German. |

4. In each subject there shall be two papers, of not more than three hours each.

*
In Mathematics, the subjects of examination are:—Elementary Geometry (the substance of Euclid, Books I.-IV., and VI.; any proof which appears to form part of a systematic treatment of the subject will be accepted); Algebra; Trigonometry; Elementary Analytical Geometry.

¹ The Senatus may relax this Regulation in cases where *very special cause* has been shown.

² The papers in English will not include questions on British History and Geography

Candidates for the John Welsh Bursary in Mathematics will have a paper on Pure Geometry, in addition to the two Bursary papers in Mathematics.

In History, one paper will be in General British History; and the second paper will be on the outlines of European History, including Ancient, Mediæval, and Modern History. In both papers, questions on historical geography will be included.

Candidates who offer Natural Science are required to produce evidence of their having undergone a practical course in their subject.

In Natural Science, there will be five papers, viz.: (1) Natural Philosophy I. (Dynamics, Heat and the General Properties of Matter); (2) Natural Philosophy II. (Electricity, Light, and Sound); (3) Chemistry; (4) Botany; (5) Geography. Candidates may offer any two of the above papers.

In Geography, two-thirds of the paper will be on General Geography interpreted as the study of the influences, especially on man, of local conditions and place relations, and thus including (a) such elementary science as is necessary to the understanding of those influences, more particularly as they depend on climate, and (b) a knowledge of maps, as the necessary means of expressing place relations. One-third of the questions will be on the geography of the British Empire.

TIME-TABLE FOR BURSARY EXAMINATIONS.

1920.

- June 15. Tues. Latin, 10-12, 1-3; Greek, 4-6.
 „ 16. Wed. Greek, 10-12; English, 1-3, 4-6.
 „ 17. Thur. German, 10-12, 1-3; French, 4-6.
 „ 18. Fri. French, 10-12; Mathematics, 2-4.30.
 „ 19. Sat. Mathematics, 10-12.30; History, 2-5.
 „ 21. Mon. History, 10-12; Italian, Spanish, Celtic, 1-3, 4-6.
 „ 22. Tues. Natural Philosophy I., 10-1; Natural Philosophy II., 2-5.
 „ 23. Wed. Geometry for Welsh Bursary and Kelland Prize, 10-12.30;
 Chemistry, 2-5.
 „ 24. Thur. Botany, 10-1; Geography, 2-5.
 July 5. Mon. Meeting of Candidates with Dean, for Allocation of Bursaries, at 2 o'clock.

Second Year Bursary Examination.

Names of Candidates must be entered by 5th June.

The subjects of examination are Latin, Greek, and Mathematics.

The papers will be those set for the Ordinary M.A. Degree.¹

Third Year Bursary Examination.

Names of Candidates must be entered by 5th June.

The subjects of examination are Classics, Mathematics, and Logic (including Philosophical Introduction).

The papers will be those set for the Ordinary M.A. Degree.¹

¹ In Classics, the papers on prescribed books are not included.

No candidate shall obtain a Bursary in Arts, open to unrestricted competition, who shall not have passed the Preliminary Examination in Arts, or its equivalent.

Candidates for *Preferential or Restricted* Bursaries in the gift of private patrons must, if they do not hold exempting certificates, pass the Preliminary Examination in Arts prescribed by the Regulations for Degrees in Arts, Section III., and no Bursary shall, except as hereinafter provided, be awarded to any candidate who shall not have passed the Preliminary Examination in Arts, or its equivalent. But it is in the power of the Senatus, with the approval of the University Court, to admit to a Bursary in Arts not awarded in open competition a candidate who shall have passed in at least one subject of the Preliminary Examination, on the condition that he shall not retain the Bursary unless he shall have passed in all the subjects not later than the second Preliminary Examination after the date of his admission as Bursar. When more than one candidate enters for a Preferential Bursary, the examination will be competitive, as for First Year Bursaries.

County Clubs, and others, may, by arranging with the University Court, avail themselves of the University Examinations. Those who desire to have their Bursaries inserted in the CALENDAR, under the head of Bursaries open during the year, are requested to give intimation to the Editor of the CALENDAR before 1st March.

Candidates for Bursaries, unless also candidates for the Preliminary Examination, pay no fee.

The names of the successful candidates, and of others distinguished in the ordinary Bursary competition, will be published, in the order of merit, in the University Calendar, along with the names of the schools from which they come.

Conditions of Tenure.

Bursars in Arts shall attend in each year at least two classes qualifying for Graduation in Arts, and shall duly perform the work of these classes. But it is within the power of the Senatus, with the approval of the University Court, to permit such Bursars to attend classes qualifying for Graduation in Pure Science in place of classes qualifying for Graduation in Arts. [See Ordinance, No. 57.] Bursars who hold Bursaries tenable for four years, and who graduate at the end of three years, may retain their Bursaries during a fourth year if they engage in study approved by the Senatus in subjects included in the Curriculum for Degrees in Arts or in Pure Science.

Payment of Bursaries, Etc.

The attention of all Bursars in the Faculty of Arts is particularly called to the following regulation:—

“Bursars in the Faculty of Arts (to whose Bursaries special conditions are not attached) must annually attend at least two of the Classes necessary for the Degree of Master of Arts, and must present themselves at the Examinations necessary for that Degree.

"Each Fellow, Scholar, Bursar, or Prizeman, when he applies to the Factor for payment, must produce a Certificate signed by the Dean, or the Professor to whose department the Foundation is attached, attesting his regular attendance on the proper Classes, etc., or otherwise that he has fulfilled the conditions attached to the Foundation."

Certificates, in terms of this regulation, will be given to Bursars, by the *Dean of the Faculty of Arts*, after 13th November, and after the completion of the Bursars' Courses in each academic year. In applying to the Dean for the Certificate in November, Bursars must present their Class Cards for the ensuing academic year; and at the end of their courses they must present certificates from the Professors that they have attended with regularity and made progress in their studies. Payments are made by the University Factor, Sir Henry Cook, W.S., 61 North Castle Street, Edinburgh, as follows:—

For the Martinmas payments, on and after 15th November.

For the Whitsunday payments—Fellowships and Scholarships, on and after 19th May; Bursaries, at the end of the Courses attended.
Office hours, 10 to 3.

N.B.—Bursars, Scholars, and Fellows who desire to resign should at once announce this to the Factor. They must apply to the Factor for the instalments due to them within three months after they have become payable, otherwise they will be regarded as having resigned.

FACULTY OF SCIENCE

DEAN—PROFESSOR HUDSON BEARE, B.A., B.Sc., M.I.C.E.

PROGRAMME OF CLASSES, 1919-1920.

The Classes will be opened as in the following Table. They will close for the Christmas vacation on Friday, 19th December 1919 (Autumn Term); will reassemble on Tuesday, 13th January 1920, and close on Friday, 19th March 1920 (Spring Term); will reassemble on Tuesday, 20th April, and (except those also in the Faculty of Medicine) close not later than Friday, 18th June (Summer Term).

For Classes which are, in the first instance, in the Faculty of Arts (e.g., Mathematics and Natural Philosophy), see the Programme of that Faculty.

DAILY TIME-TABLES OF GRADUATION CLASSES are also given on pages 355, 433, 456, 462.

CLASSES.	Days of Opening and Hours of Lectures.	Professors and Lecturers.	Class Fees. See also pp. 383-39.	See also page
Mathematics (First Ordinary Course)	14 Oct., 9 a.m.	Professor Whittaker and Lecturers	£4	207
Mathematics (2nd Ord. & 1st Actuarial Course)	14 Oct., 12 noon		4	207
Mathematics (Intermed. and 2nd Actuarial)	15 Oct., 11 a.m.		4	209
Mathematics (Advanced and Laboratory)	15 Oct., 10 a.m.		4	209
Mathematics (Additional Summer Course)	21 Apr., 11 a.m.		2	210
Mathematics (Map Projections)	20 Apr., 4 p.m.	E. M. Horsburgh, M.A., B.Sc. A. E. Sprague, M.A., D.Sc., P.F.A., F.I.A.	2	208
Mathematics (Post-Graduate Course)	14 Oct., 9 a.m.		4	210
Mathematics, Technical: First Course	14 Oct., 11 a.m.		4	208
Mathematics, Technical: Second Course	Apr., 5 p.m.		4	208
Actuarial Science (First Course)	Apr., 5 p.m.		2	209
Applied Mathematics (Second Course)	Apr., 5 p.m.	C. G. Knott, D.Sc., LL.D.	2	209
Applied Mathematics (Final Classes):—				
Dynamics (Intermed. Course) (3 Terms)	15 Oct., 12 noon		4	211
Hydrodynamics & Elasticity (Final) (Autumn)	Oct., 11 a.m.		2	212
Waves in Matter and Ether (Final) (Spring)	Jan., 11 a.m.		2	212
Kinetic Theory of Gases and Radiation (Final) (Summer)	Apr., 11 a.m.		2	212
Quaternions (Final) (Summer)	21 Apr., 9 a.m.		2	212
Dynamics, Hydraulics, & Elasticity (Engineering) (3 Terms)	15 Oct., 10 a.m.		2	212
			4	381

CLASSES.	Days of Opening and Hours of Lectures.	Professors and Lecturers.	Class Fees. See also pg. 338-39.	See also page
Invertebrate Zoology (with Laboratory Work) (<i>Monday, Wednesday, and Friday</i>)	21 Apr., 2-5 p.m.	Prof. Ashworth	£3 3 ¹	350
Zoology, Applied — Domestic Animals (25) Lectures, with Laboratory Work for Veterinary Students	20 Apr., 4 p.m.	.	2 2 ²	418
Genetics (Evolution and Heredity)	.	.	2 2	350
Botany (First Science) (Three Terms) (<i>Tuesday and Thursday</i>)	14 Oct., 2 p.m.	{ Prof. Balfour and J. L. S. }	6 6 ³	351
Botany (Intermediate)	14 Oct., 9 a.m.	{ Smith, M.A., B.Sc. }	3 3 ⁸	351
Botany (Advanced)	14 Oct., 9 a.m.	.	3 3 ³	352
Botanical Laboratory (Intermediate and Adv.)	14 Oct., 9-5 p.m.	{ Prof. Balfour and Lecturers }	2 2 ²	352
Plant Physiology	14 Oct., 11 a.m.	.	2 2 ³	352
Plant Physiology	20 Apr., 11 a.m.	{ R. W. Pealling, M.A., B.Sc. }	2 2 ³	352
Botany — Mycology for Veterinary Students	21 Apr., 2.30 p.m.	{ Malcolm Wilson, D.Sc. }	2 2 ³	408
Elementary Bacteriology (once weekly)	20 Apr., 2.30 p.m.	.	1 1 ³	353
Geology (Three Terms)	15 Oct., 4 p.m.	{ Prof. Jehu }	4 4	346
Practical Class (Three Terms)	15 Oct., 2-4 p.m.	{ Prof. Jehu and Lecturers }	4 4 ⁴	347
Structural and Field Geology	15 Oct., 12 noon	{ Prof. Jehu }	3 3	347
Petrology (<i>Monday, Wednesday, and Friday</i>)	21 Apr., 11-1 p.m.	{ R. Campbell, M.A., D.Sc. }	2 2	348
Paleontology (Autumn Term, daily)	15 Oct., 4 p.m.	.	2 2	348
Fossil Botany (Spring Term, <i>Tuesday and Thursday</i>)	Jan.,	{ T. M. Finlay, M.A., B.Sc. }	...	348
Anatomy	14 Oct., 11 a.m.	.	4 4 ⁶	556
Anatomy, Practical	14 Oct., <i>daily</i>	.	3 3 ⁷	556
Regional Anatomy (Anatomical Demonstra- tions)	20 Apr., <i>daily</i>	{ Prof. Robinson, Lecturers, }	2 2	556
.	15 Oct., 9 a.m.	{ and Assistants }	2 2 ⁸	556
Anthropology ¹⁰	21 Apr., 10 a.m.	.	2 2 ⁹	556
.	Apr., 1 p.m.	{ Prof. Robinson }	2 2 ⁹	345

PROGRAMME OF CLASSES

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Physiology	14 Oct., 10 a.m.		4	4	558
Demonstrations on Mons. (10-11 and 12-1).					
Experimental Physiology ¹¹	14 Oct., 11 a.m.		2	2 ¹²	559
Chemical Physiology ¹¹	13 Jan., 11 a.m.	Prof. Sir Edward Sharpey	1	1 ¹²	559
	20 Apr., 8-10 a.m.	Schafer, Lecturers, and			
Histology	or 11-1 p.m.	Assistants.	2	2 ¹²	559
Advanced Experimental Physiology ¹³			2	2 ¹²	345
Advanced Chemical Physiology ¹³			2	2 ¹²	345
Advanced Histology ¹³			2	2	345
Engineering, Junior ¹⁴	14 Oct., 9 a.m.		4	4 ¹⁵	367
Engineering, Senior ¹⁴	14 Oct., 9 a.m.		5	5 ¹⁵	369
Sanitary Engineering and Building Construction (Public Health) (Tues. and Fri.)	14 Oct., 11 a.m.	Prof. Hudson Beare and	2	2	385
Engineering Laboratory	15 Oct., daily	Lecturers.	6	6	373
Engineering, Introductory (Tues. and Thurs.)	13 Jan., 9 a.m.		1	1	366
Engineering, Field-Work (Surveying, Leveling, etc.) (3 days a week, 10 to 4)	21 Apr., 10 a.m.		3	3	368
Engineering Drawing	14 Oct., 10-4 p.m.	W. Hume Kerr, M.A., B.Sc.	5	5 ¹⁵	371
Lectures, Senior (Monday), Junior (Thursday)	16 Oct., 12 noon	and H. C. Gardham, B.Sc.			
Public Health and Sanitary Science	14 Jan., 3 p.m.	Prof. Hunter Stewart	4	4	384
Pub. Health and Sanitary Science Laboratory	15 Oct., daily		see p. 85		382
Sanitary Science and Veterinary Hygiene (Vet. Sc.)	Jan.	Prof. Hunter Stewart and Dr Buchanan Young	3	3	410

- 1 Besides charge of 10s. for Laboratory Expenses.
- 2 5s. Entrance Fee for Non-matriculated Students (see page 16).
- 3 Besides Garden Fee, 5s.
- 4 Besides charge of 5s. for Laboratory Expenses.
- 5 Entrance Fee for Advanced Students of Geology and Botany.
- 6 Three months' course (for those who have previously taken a full course), £2, 2s.
- 7 Three months' course, £2, 2s.
- 8 When taken along with Practical Anatomy, £1, 1s. Fee for three months' course, £1, 1s.
- 9 When taken with Practical Anatomy, £1, 1s.
- 10 This Class is only held, as a rule, every second year.
- 11 Class meets in sections on different days. One division meets on Wednesday at 2, instead of 11.
- 12 Besides a small charge for materials.
- 13 Times to be arranged.
- 14 Each member of the Class has also to work for at least four hours a week in the Laboratory. Hours arranged at first meeting of Class.
- 15 Single Term, £2, 2s.

CLASSES.	Days of Opening and Hours of Lectures.	Professors and Lecturers.	Class Fees. See also pp. 333-33.	See also page
Drawing in its relation to Public Health	15 Oct., 11 a.m.	W. Hume Kerr, M.A., B.Sc.	2 2	385
Agriculture and Rural Economy	14 Oct., 9 a.m.	{ Prof. Wallace	4 4 ¹	387
Garton Lectures on Colonial and Indian Agriculture (<i>Thursday</i>)	16 Oct., 12 noon	{ Prof. Wallace and J. A. S.	1 1 ²	389
Agriculture and Rural Economy (Adv.), with Tutorial Instruction (4 meet. per week)	14 Oct., 12 noon	{ Watson, B.Sc.	3 3 ¹	388
Economics as Applied to Agriculture (Political Economy Class—Autumn Term)	14 Oct., 9 a.m.	Prof. Nicholson	2 2	192
Forestry, Intermediate (Spring and Summer)	13 Jan., 11 a.m.	{ E. P. Stebbings, J. Lyford	4 4 ² 3	399
Forestry, Advanced (Autumn and Spring)	(Summer, 10 a.m.) 14 Oct., 9-1	{ Pike, M.A., B.Sc., and	4 4 ²	400
Practical Forestry (Junior)	Easter Vacation and Summer Term	{ D. C. Fergusson, M.C., B.Sc.	3 3	401
Practical Forestry (Senior)	Vacations and Summer Term	{ R. Stewart MacDougall, M.A., D.Sc.	3 3	401
Agricultural Entomology	15 Oct., 3 p.m.	{	2 2 ² 5	394
Agricultural Entomology, Practical	15 Oct., 2 p.m.	{	1 11 6 ² 3	396
Forest Zoology	15 Oct., 3 p.m.	{	3 13 6 ³	405
Forest Zoology, Practical	15 Oct., 2 p.m.	{ W. G. Craib, M.A.	4 4 ⁶	402
Forest Botany	15 Oct., 2 p.m.	{	2 2 ⁶	402
Indian Forest Trees (<i>Tues., Wed., and Thurs.</i>)	20 Apr., 8-9.30 a.m.	{ Malcolm Wilson, D.Sc.	2 2 ⁶	402
Mycology (Agriculture and Forestry)	14 Oct., 2.30 p.m.	{ Wm. Gordon, B.Sc., A.M.I.	3 3	405
Forest Engineering	14 Oct., 11 a.m.	{ Mech. E.	3 3	565
Bacteriology (Senior)	20 Apr., 4 p.m.	{ Prof. Ritchie.	1 1 ²	397
Law of Landlord and Tenant	13 Jan., 4 p.m.	{		

¹ For both Courses, if paid at the beginning of the first year, £6, 6s.

² This fee includes 10s. 6d. for Class material

³ The Course of Lectures on Agricultural Entomology is free to past and present students of the Ordinary Class of Agriculture, but such students require to pay a fee of £1, 11s. 6d. in respect of the Practical Course.

⁶ Besides Garden Fee, 5s.

⁷ Held in alternate years.

FEEES FOR SECOND OR SUBSEQUENT ATTENDANCES.

1. *Lecture Courses*, which qualify alike for Graduation in Science and Medicine: Second attendances on £4, 4s. Courses, £3, 3s.; on £3, 3s. Courses, £2, 2s.; subsequent attendances free: second attendances on £2, 2s. Courses, no reduction; third or subsequent attendances, £1, 1s. Perpetual Tickets for initial payment, £6, 6s. No reduction for re-attendances on Practical Classes or Laboratories.

2. *Lecture Courses* which qualify both for Arts and Science: Second attendances on £4, 4s. Courses, £3, 3s.; third or subsequent attendances, £1, 1s.: second attendances on £3, 3s. Courses, £2, 2s.; third or subsequent attendances, £1, 1s.: second attendances on £2, 2s. Lecture Courses (not being Honours Half-Courses for M.A.), £1, 1s. 6d.; third or subsequent attendances, £1, 1s.; Lecture Courses, when fee for first attendance is less than £2, 2s., no reduction. Full Courses (being also Honours Courses for M.A.), second attendances, no reduction; third or subsequent attendances, £2, 2s.: second attendances on £2, 2s. Courses (being also Half-Honours Courses for M.A.), no reduction; third or subsequent attendances, £1, 1s.

3. *Lecture Courses* not included in the curricula in Arts or Medicine: Second attendances on £3, 3s. Courses, no reduction; third or subsequent attendances, £2, 2s.: on £2, 2s. Courses, second attendances, no reduction; third or subsequent attendances, £1, 1s. Ordinary Class of Agriculture and Rural Economy, second attendance, £3, 3s. Ordinary Class in one year, and Advanced in the same or in the following year (initial payment), £6, 6s. (This fee does not cover re-attendance on either course.) Ordinary and Advanced Classes in two consecutive years, permitting re-attendance on any part of either course within that period (initial payment), £7, 7s.

4. *Courses in Engineering and Drawing*. No reduction for second or subsequent attendances.

5. *Practical Classes and Laboratory Courses*. No reduction for re-attendances.

MATRICULATION, ETC.

Matriculation consists in paying annually an entrance fee to the University, and in inscribing the name in the Students' Album.

The Matriculation Fees are:—

For the Academic Year, 1st October to 1st October.	. £1 1 0
For the Summer Session only, 1st April to 1st October	. 0 10 6

Note.—Candidates for Examination or for Graduation must pay the Matriculation Fee of £1, 1s., unless previously matriculated for the whole year.

Candidates for Degrees, not being Matriculated Students, who are attending Extra-Academical Classes in Edinburgh, pay a fee equivalent to the Matriculation Fee.

University Entrance Fee, in lieu of Matriculation, for each of certain Courses *specified in the Programme of Classes*, when not taken for Graduation £0 5 0

Payment of the Entrance Fee does not entitle the student to a certificate of attendance, nor confer any other University privilege.

Students who do not intend to graduate in Science may attend any of the classes on payment of the Matriculation and the Class Fees, without having passed any Preliminary Examination. Those who wish their classes to count for graduation must pass the Preliminary Examination.

CLASS FEES IN THE FACULTY OF SCIENCE.

All students in Pure Science who began their curriculum in any academic year before 1912-13; all students in Agriculture, Engineering, and Forestry who began their curriculum in any academic year before 1914-15; and all students in Public Health and Veterinary Science, shall continue to pay the normal class fees, as they have been fixed hitherto (see Programme of Classes, pp. 332-336).

All students in Pure Science who began their curriculum in the academic year 1912-13, or any subsequent year, and all students in Applied Science (except Public Health and Veterinary Science) who began their curriculum in the academic year 1914-15, or any subsequent year, and who intend to pursue a regular course with a view to graduation, shall pay an Inclusive Fee, in place of the fees for separate classes.

The Inclusive Fee for the curriculum for the Degree of B.Sc. in Pure Science, in Engineering (Civil, Mechanical, or Electrical), in Agriculture, or in Forestry, is sixty guineas, payable in three annual instalments of twenty guineas each.

The Inclusive Fee for the curriculum for the combined Degrees of M.A. and B.Sc. in Pure Science, or in any one of the above Applied Sciences, is seventy-five guineas, payable in five annual instalments of fifteen guineas each.

NOTE.—*Classes taken outside the University do not qualify for graduation in ARTS.*

The Inclusive Fee for the curriculum for the combined degrees of B.Sc. in Agriculture and B.Sc. in Forestry is ninety guineas, payable in four annual instalments of twenty guineas, and a fifth instalment of ten guineas.

All Fees, whether instalments of an Inclusive Fee or normal Class Fees, are payable before attendance at classes begins.

No student who began his curriculum in Pure Science in the academic year 1912-13, or in Applied Science (except Public Health and Veterinary Science) in the academic year 1914-15, or any subsequent year, will be admitted to a degree examination in any year, until he has paid in full the instalment, if any, of the Inclusive Fee payable in respect of that year and of every preceding year of his curriculum.

No students who under these regulations pay an Inclusive Fee for their curriculum will be admitted to graduation until the whole of the Inclusive Fee has been paid.

The above Inclusive Fee will admit to all classes which are necessary or desirable as parts of a curriculum leading to the Degree of B.Sc. in Pure Science or Applied Science, as above, and are approved as such by the Official Adviser, subject to the consent of the Dean of the Faculty.

A student may attend a non-graduating class, or any class in addition to those approved as necessary or desirable parts of a curriculum leading to the degree, on payment of the normal class fee.

A student who has attended a class or classes which did not qualify for graduation, and has subsequently obtained leave to count such attendance as qualifying, shall be allowed to deduct the fees paid for such classes from the first annual instalment of his Inclusive Fee.

The Inclusive Fee for the Degree of B.Sc. in Pure Science or Applied Science will not cover second attendance at any laboratory or practical class: it will cover second attendance at one other class, but will not cover a third or subsequent attendance at any class. The fees for such second or subsequent attendances remain as before (see p. 337).

The Inclusive Fee for the Degree of B.Sc. in Pure Science or Applied Science covers any part of the curriculum for the Degree taken in Institutions approved by the University Court, or under extra-academical teachers recognised by the University Court for the purposes of graduation in Pure or Applied Science.

A student who presents a certificate that, before beginning his course of study for the Degree of B.Sc. in this University, he has attended a course of instruction in Pure Science or Applied Science, given in a recognised University or Institution, or by a recognised extra-academical teacher, if the said course of instruction is accepted as exempting him from any part of his curriculum, shall be entitled to a deduction from the Inclusive Fee of the amount paid for such course of instruction, being not in excess of the amount of the normal fee for the corresponding course given in the University, nor in excess of the sum of four guineas for any one subject: provided always that he has not already attended the latter course as part of his curriculum in this University.

ENTRY INTO CLASSES IN THE FACULTY OF SCIENCE.

Every person who enters a class-room on the opening day of any Course in the Faculty of Science must present to the Servitor in charge—

A Class Ticket, or the corresponding counterfoil issued by the Fee Office; *or* a Pass from the Official Adviser; *or* a Pass signed by the Professor or Lecturer who is giving the Course; *or* a Pass from the Secretary.

Any student who begins to attend after the opening day must give a satisfactory excuse for his late entry. No Professor or Lecturer will in any term admit a student to a Qualifying Course in Science more than two weeks after the advertised day of opening, without the express permission of the Faculty.

The Dean of the Faculty of Science may be consulted at the Engineering Buildings, High School Yards; and letters to him should be sent to that address.

* * Students who intend to graduate both in Science and in Medicine should consult the Dean of the Faculty of Medicine, before finally arranging their Curricula.

Mrs Garden Blaikie, M.B., Ch.B. (Cambridge Teacher's Certificate of Distinction), who has been appointed Lady Warden, will attend in her office in the University New Buildings, from 10 to 12.30 and from 2 to 4, from 1st October and throughout the terms of the academical year. Women Students of all Faculties are desired to see the Lady Warden at her office during the first fortnight of the Session.

OFFICIAL ADVISER.

(Dr CARGILL G. KNOTT.)

Intending students who propose to study in the Faculty of Science in Session 1919-20 are requested to apply to the Clerk, Matriculation Office, for a copy of the "Schedule of Information for the Official Adviser in the Faculty of Science."

With this Schedule properly filled up, every student must consult the Official Adviser, in the Applied Mathematics Retiring-Room, Natural Philosophy Buildings, University, from 1st October onwards, from 9.30 to 1; and should obtain (1) his approval of his proposed curriculum as a whole, and (2) an Official Adviser's Pass, to be presented at the Class Fee Office, for the classes to be taken during the academic year 1919-20.

Graduation Students of other Years than the First.

Graduation Students of other years than the first are recommended to consult the Official Adviser during the last fortnight of the Summer Term, and obtain from him a pass for their classes for the next academic year.

Students who have postponed the fixing of their classes for 1919-20 may consult the Official Adviser on the days stated above, from 9.30 to 12.30 and from 2 to 4.

COURSES OF INSTRUCTION.

DEPARTMENT OF PURE SCIENCE.

MATHEMATICS.

E. T. WHITTAKER, M.A., Sc.D., F.R.S., Professor of Mathematics ;
CHARLES TWEEDIE, M.A., B.Sc., DAVID GIBB, M.A., B.Sc.,
RAYMOND W. BRINK, M.A., Ph.D., and GLENNY SMEAL,
B.Sc., Lecturers in Mathematics ; E. M. HORSBURGH, M.A.,
D.Sc., Assoc.M.Inst.C.E., Lecturer in Technical Mathematics ;
A. E. SPRAGUE, M.A., D.Sc., P.F.A., F.I.A.,
Lecturer in Actuarial Science.

For Synopses of Lectures, see under FACULTY OF ARTS.

Note.—Any student may be allowed to substitute for the qualifying attendance on the Ordinary Class of Mathematics an attendance on the first part of the Course of Technical Mathematics, and to take, instead of the Second Pure Mathematical Paper for the first B.Sc. (the same as for the Ordinary Degree of M.A.) the first of the Mathematical Papers for the first B.Sc. examination in Engineering, or he may take both of the papers for the first B.Sc. in Engineering if he possesses the requisite knowledge of Technical Mathematics.

APPLIED MATHEMATICS.

C. G. KNOTT, D.Sc., LL.D.

For Synopses of Lectures, see under FACULTY OF ARTS.

The Intermediate Honours Course in Applied Mathematics (Analytical Dynamics) qualifies as a Full Course for the First Stage of the Final Examination in Pure Science.

The Final Honours Courses in Applied Mathematics, (1) Hydrodynamics and Elasticity, (2) Waves in Matter and Æther, (3) Kinetic Theory of Gases and Radiation, (4) Quaternions,

qualify as Half-Courses for the Second Stage of the Final Examination in Pure Science.

For Applied Mathematics Course in Applied Science, see under Engineering, p. 381.

NATURAL PHILOSOPHY.

C. G. BARKLA, M.A., D.Sc., F.R.S., Nobel Laureate,
Professor of Natural Philosophy.

G. A. CARSE, M.A., D.Sc., and H. S. ALLEN, M.A., D.Sc.,
Lecturers in Natural Philosophy.

J. MILNE, D.Sc., *Lecturer in Physical Optics.*

For Synopses of Courses, see under FACULTY OF ARTS.

The first B.Sc. qualifying Course in Natural Philosophy is the Ordinary Natural Philosophy Course, including lectures and practical work.

The Intermediate Honours Classes in Heat, Optics, and Electricity qualify as Half-Courses for the First Stage of the Final Examination in Pure Science.

The Final Honours Classes in Advanced General Physics, Physical Optics, Electricity I, Electricity II, qualify as Half-Courses for the Second Stage of the Final Examination in Pure Science.

ASTRONOMY.

PROFESSOR SAMPSON.

Intermediate Course.

The Intermediate Course is the same as the Course in the Faculty of Arts, and consists of sixty lectures, and, on different days, twenty meetings of two hours each for Observatory work.

The lectures are delivered at the University on Tuesday, Wednesday, and Thursday, at 3 P.M., and the class meets on Friday at the Royal Observatory, Blackford Hill, from 5 to 7 P.M., for practical exercises.

(For further details of Course, see under ARTS.)

Advanced Course.

The Professor proposes to conduct an Advanced Course in the Summer Term, with fifteen meetings at the Observatory of two hours each, on Tuesday, Wednesday, and Thursday, 5 to 7.

The Course will deal with theory and practice of finding star-places from a photographic plate, and will include the outlines of combination of observations; derivation of differential and fundamental positions of reference stars; formation of a star-catalogue.

Students will be expected to study, under direction, memoirs and books where the procedures are described. Professor Sampson reserves the right of admission to this Course. Students proposing to attend should communicate with him early in the Spring Term. They must be adequately prepared with a good knowledge of Mathematics and Optics. Fee for this Course, £2, 2s.

CHEMISTRY.

PROFESSOR WALKER.

LEONARD DOBBIN, Ph.D., A. C. CUMMING, D.Sc., J. E. MAC-KENZIE, D.Sc., Ph.D., S. A. KAY, D.Sc., H. G. RULE, B.Sc., Ph.D., A. M. WILLIAMS, M.A., D.Sc., DAVID BALSILLIE, B.Sc., and J. D. M. ROSS, M.A., B.Sc., *Lecturers*.

First Lecture Course.

DR DOBBIN and PROFESSOR WALKER.

The Class meets on Mondays, Wednesdays, and Fridays, from 10 to 11, during the three terms. For Tutorial work, which is obligatory, the Class may be divided into two sections, which will meet on Tuesdays and Thursdays.

The lectures are devoted to Elementary Inorganic Chemistry, embracing the more important metallic and non-metallic elements and their chief compounds, together with an introduction to Chemical Theory. Special lectures are given to Engineering, Agricultural, and Forestry students on ordinary meeting days of the Class. Fee £4, 4s.

First Laboratory Course.

This Course should be taken in conjunction with the First Lecture Course. It meets for two hours twice a week during the three terms. The work will include simple inorganic preparations, the detection of the chief inorganic elements and compounds, the

analysis of simple inorganic mixtures, and an introduction to Volumetric Analysis. Fee £4, 4s.

Students who intend to profess Chemistry as a subject in the Final B.Sc. examination may take part of their Intermediate Laboratory Work concurrently with the First Laboratory Course.

Intermediate Lecture Course.

PROFESSOR WALKER and LECTURERS.

The Class will meet on Mondays, Tuesdays, and Wednesdays, during the three terms, from 10 to 11. In the Autumn Term, Advanced Inorganic Chemistry, Chemical Theory, and Elementary Physical Chemistry will be taken up. In the Spring and Summer Terms the work will be devoted chiefly to Organic Chemistry. Fee £4, 4s.

Intermediate Laboratory Course.

A minimum of 240 hours must be given to laboratory work, which will include the preparation of typical inorganic and organic substances, the testing of organic substances, complex qualitative analysis, and simple quantitative estimations.

Advanced Lecture Course.

PROFESSOR WALKER and LECTURERS.

An Advanced Lecture Course of about 60 lectures will be given during the three terms. The Class will meet from 9 to 10 on Tuesdays and Thursdays during the Autumn, Spring, and Summer Terms. Fee £3, 3s.

Advanced Laboratory Work.

In addition to the time spent in the laboratory for the First and Intermediate Courses, students who take Chemistry on the Higher Standard must give at least 240 hours' attendance in the laboratory. The work will include further inorganic analysis, the testing and ultimate analysis of organic substances, gas analysis, assaying, and physico-chemical measurements.

The fee for the Intermediate and Final Laboratory Courses is—

Whole Day, £6, 6s. per term.

Half Day, £3, 3s. „ „

Or for the three terms of the academic year—

Whole Day, £16, 16s.

Half Day, £8, 8s.

HUMAN ANATOMY, including ANTHROPOLOGY.

PROFESSOR ROBINSON, with E. B. JAMIESON, M.D., F. E. JARDINE, M.B., and WALTER Q. WOOD, M.B., *Lecturers*.

For a Synopsis of Lectures on Anatomy and for Course of Practical Anatomy, see under FACULTY OF MEDICINE, p. 556.

Anthropology.

If a sufficient number of students express their intention of selecting Human Anatomy, including Anthropology, as a subject for the degree of B.Sc., there may be a Course of twenty-five lectures and demonstrations on Physical Anthropology during the Summer Session 1920. Members of the Class will be trained in Anthropometrical methods. Fee, £2, 2s.; or, for students who take the Summer Course of Practical Anatomy, £1, 1s.

PHYSIOLOGY.

PROFESSOR Sir EDWARD SHARPEY SCHÄFER, with W. W. TAYLOR, M.A., D.Sc.; MAY L. WALKER, M.A., B.Sc., M.B.; R. K. S. LIM, M.B.; and A. NINIAN BRUCE, D.Sc., M.D., *Lecturers*.
RUTH FAIRBAIRN, B.Sc.; R. J. S. M'DOWALL, M.B.; H. DRYERRE, M.R.C.S. Eng.; and DOROTHY CHARLTON, *Assistants*.

For Synopsis of Lectures, and Elementary Courses of Practical Physiology and Histology, see under FACULTY OF MEDICINE, p. 559.

Advanced Practical Physiology.

This Course is devoted to Experimental and Chemical Physiology and Histology of a more advanced nature than that of the ordinary Course of Practical Physiology. It is necessary that

those who propose attending the Course should have already attended the General Course (or similar Courses elsewhere). The subject is divided into three parts, viz. : (1) Experimental ; (2) Chemical ; (3) Histological. Fee, £2, 2s. for any part separately : £5, 5s. for all three parts.

This Course is adapted for those preparing for the B.Sc. Examination in Physiology, and for those who may afterwards desire to prosecute Researches in Physiology or Pathology.

A small fee is charged in each Part to cover the cost of materials.

GEOLOGY, including MINERALOGY

A.—Class of Geology and Mineralogy.

PROFESSOR JEHU.

This Course extends over three terms—Autumn, Spring, and Summer. The work of the Class is distributed as follows :—

Autumn Term.

Historical Sketch of the Rise and Progress of the Science.

Cosmical Geology.

Mineralogy.—An account of the physical and chemical characters of minerals, and a description of some of the more important and typical species in the various mineral groups.

Petrography.—A description of the various families of rocks.

Dynamical Geology.—A discussion of the nature and causes of geological changes effected on the surface and within the interior of the earth.

The Class meets at 4 o'clock on Mondays, Wednesdays, and Fridays.

[*N.B.*—For Arts students, demonstrations* of one hour each are held on Tuesdays and Thursdays at 4 o'clock.]

Spring Term.

Dynamical Geology (continued).

Tectonic Geology.—A description of the geological structure and relations of rock-masses to each other.

Physiographical Geology.—An inquiry into the origin of the present outlines of the earth's surface.

The Class meets on Mondays, Wednesdays, and Fridays at 4 o'clock.

Summer Term.

Palæontological and Historical Geology.—A description of the more important types of life represented by fossils, together with the history of the successive geological periods.

The Class meets on Tuesdays and Thursdays at 4 o'clock.

[*N.B.*—For Arts students, demonstrations of one hour each are held on Wednesdays at 4 o'clock.]

Field demonstrations, which must be attended by both Science and Arts students, are given as frequently as possible during each term of the Course.

Textbooks.—*Outlines of Geology*, by the late Professor Geikie (Stanford); *Textbook of Geology* by Sir Archibald Geikie (Macmillan & Co.); Miers' *Mineralogy* (Macmillan & Co.); Cole's *Outlines of Mineralogy* (Longmans); Hatch's *Petrology* (Sonnenschein) or Harker's *Petrology for Students* (Cambridge University Press); Woods' *Palæontology* (Cambridge University Press).

B.—Class of Practical Mineralogy and Geology.

ROBERT CAMPBELL, M.A., D.Sc., THOMAS M. FINLAY, M.A., B.Sc., and PROFESSOR JEHU.

This Class meets on Mondays, Wednesdays, and Fridays, from 2 to 4 o'clock during the Autumn and Spring Terms, and daily from 1 to 2 o'clock in the Summer Term. It qualifies for the Science degree, and forms a second ordinary Course qualifying for the Arts degree.

The Field demonstrations on Saturdays are open to students attending this Class. •

C.—Class of Structural and Field Geology.

PROFESSOR JEHU, assisted by DR CAMPBELL.

This Class is held during the Autumn and Spring Terms.

The following subjects are dealt with in the Course:—*Dynamical Geology; Tectonic or Structural Geology; Geological*

Surveying; Economic Geology—the application of the Science to Mining, Engineering, Agriculture, Public Health, etc.

This Class is intended to meet the requirements of students of Applied Science. No previous knowledge of Geology is required of those attending the Class—the principles of the Science being set forth both in the lecture-room and the field.

The Class meets on Mondays, Wednesdays, and Fridays at 12 o'clock. The Saturdays, so far as possible, are devoted to field demonstrations.

Textbook.—*Structural and Field Geology*, by the late Professor Geikie (Oliver & Boyd).

Adjoining the class-room is a small museum exhibiting minerals and rocks, and the typical fossils of the different geological systems.

D.—Petrology.

ROBERT CAMPBELL, M.A., D.Sc., *Lecturer.*

Lectures and Practical Work, on Mondays, Wednesdays, and Fridays, from 11 to 1, in Summer.

E.—Palæontology.

THOMAS M. FINLAY, M.A., B.Sc., *Lecturer.*

Lectures and Practical Work daily, from 4 to 5 o'clock, during Autumn Term.

F.—Fossil Botany.

THOMAS M. FINLAY, M.A., B.Sc., *Lecturer.*

Lectures and Demonstrations on Tuesdays and Thursdays during Spring Term. Hour of meeting of class will be arranged to suit students.

(This Course is open, free, to Advanced Students of Geology and Botany.)

ZOOLOGY, including COMPARATIVE ANATOMY.

PROFESSOR EWART and PROFESSOR ASHWORTH.

First Science Course.

- (a) Autumn Term.—Lectures and Practical Work—Vertebrata.
 - (b) Spring Term.—Lectures and Practical Work—Invertebrata.
 - (c) Summer Term.—Lectures and Practical Work—Morphology of the Invertebrata.
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COMPARATIVE EMBRYOLOGY AND CYTOLOGY.J. BEARD, D.Sc., *Lecturer.*

The Course, which consists of Lectures and Laboratory Work, is made up of two portions :—

A. *Autumn Term.*—*General Embryology and Cytology.*—History of Embryology ; Theories of Development and Heredity ; Germinal Continuity ; The Cell and Cell-division ; The Germ-cells and their Cycle ; Oogenesis and Spermatogenesis Parthenogenesis. Hermaphroditism ; Fertilisation ; The Determination of Sex ; Egg-cleavage ; The Lower Invertebrata ; Alternation of Generations ; Development by Substitution of Organs ; Teloblasts ; Experimental Embryology.

B. *Spring Term.*—*Embryology of Organs and Vertebrate Development.*—The External Development of the Embryo ; Differentiation of Embryonic Foundations ; The Nervous System and the Sense Organs ; The Muscular System, Skeleton, Heart, Vessels, and Blood ; The Alimentary Canal and its Associated Structures ; The Skin, including the Mammary Apparatus, Hair, Feather, and Scale ; The Urino-genital System ; Syncytium and Trophoblast in the Vertebrata ; The Amnion, Allantois, and Allantoic Placenta ; The Characteristic Features of Mammalian Development.

MORPHOLOGY OF THE VERTEBRATA.J. BEARD, D.Sc., *Lecturer.*

This Course is held in the Autumn Term in alternate years. It consists of twenty lectures (with Laboratory work) on the

Morphology, including the Organogeny of the Vertebrata; the nervous system and its sense organs, the genito-urinary system, and, as far as time permits, the question as to the morphological nature of the vertebrate head and skeleton will be discussed.

In 1920 the Course will follow that of General Embryology and Cytology in the Autumn Term, and will begin in November, 1920.

INVERTEBRATE ZOOLOGY.

PROFESSOR ASHWORTH.

Mondays, Wednesdays, and Fridays, 2 to 5, in Summer Term.

A Course of twenty-five lectures on the Morphology of the Invertebrata. In 1919 the lectures will be on Protozoa, Porifera, Coelenterata, and Vermes; in 1920 on Echinoderms, Molluscs, and Arthropoda. In the laboratory, members of the Class will study examples selected from the above-named groups.

GENETICS (EVOLUTION AND HEREDITY).

* * * *Lecturer.*

The Course is given in the Autumn and Spring Terms, on Mondays, Wednesdays, and Fridays at 4 P.M., in the Natural History Department.

The Course consists of two parts, namely, twenty-five lectures on Evolution, in the Autumn Term; and twenty-five lectures on Heredity, in the Spring Term.

BOTANY.

PROFESSOR BALFOUR.

JAMES L. S. SMITH, M.A., B.Sc., MALCOLM WILSON, D.Sc.,
ROBERT J. PEALLING, M.A., B.Sc., *Lecturers.*
JAMES TEMPLETON, B.Sc., *Tutor.*

A.—Introductory Course.

JAMES L. S. SMITH, M.A., B.Sc., *Lecturer*, and PROFESSOR BALFOUR.

This is the Three-Term Course for Students preparing for the First Science Examination.

Autumn Term.—Lectures on Tuesdays and Thursdays at 2 P.M.

Practical Work in the Laboratory from 3 P.M. until 5 P.M.

During this Term a study is made of the Morphology of Phanerogamic Plants and their elementary Physiology.

Spring Term.—Lectures on Tuesdays and Thursdays at 2 P.M.

Practical Work in the Laboratory from 3 P.M. until 5 P.M.

During this Term the life-histories of selected types of Cryptogamic Plants are studied.

Summer Term.—Lectures on Tuesdays and Thursdays at 2 P.M.

Practical Work in the Laboratory from 3 P.M. until 5 P.M.

The work during this Term deals with Phanerogamic Plants, particularly those represented in the British Flora.

Excursions are made during the Course, for the practical study of plants in the field.

Fee for the whole or any part of the Course, £6, 6s., and a Garden Fee of 5s.

B.—Intermediate Course.

PROFESSOR BALFOUR, LECTURERS, and TUTOR.

Autumn and Spring Terms.—Lectures and Laboratory Work on five days a week, from 9 A.M. until 1 P.M.

A minimum of 250 hours must be given to Laboratory Work, and Field Demonstrations must be attended.

The work of the Course includes an extended study of selected types of plants, the principles of Organography, the basal facts of Physiology, the floristic features of the British Flora, elementary data of Ecology.

Fee for the Course—Lectures £3, 3s., Laboratory £2, 2s., and a Garden Fee of 5s.

C.—Advanced Course.

PROFESSOR BALFOUR, LECTURERS, and TUTOR.

Autumn, Spring, and Summer Terms.—Lectures and Laboratory Work from 9 A.M. until 5 P.M.

250 hours must be given to Laboratory Work, in addition to the time required for the Intermediate Course.

The work of the Course includes an extended study of plant life, and a discussion of the problems of Geographical Distribution, Ecology, and Evolution.

Fee for the Course £3, 3s., Laboratory £2, 2s.

D.—Plant Physiology.

ROBERT J. PEALLING, M.A., B.Sc., *Lecturer.*

Autumn Term.—Lectures and Laboratory Work on two days a week, from 9 A.M. until 1 P.M.

The work of this Course is the experimental study of the functions of plants.

The Fee for the Course is £2, 2s., and in addition there is a Garden Fee of 5s. for those attending no other Course in the Garden.

Summer Term.—A Course similar to the above.

E.—Mycology.

MALCOLM WILSON, D.Sc., *Lecturer.*

Autumn Term.—Lectures and Laboratory Work on Tuesdays and Thursdays, from 2.30 P.M. until 5 P.M.

The work of the Course is a study of Fungi, Bacteria, and Mycetozoa, with special reference to the forms causing plant disease.

Spring Term.—This Course is a continuation of that of the Autumn Term, and is a special one, dealing with Agricultural Mycology on one day a week and Forestry Mycology on another day:—

(a) AGRICULTURAL MYCOLOGY.

Lectures and Laboratory Work on Tuesdays, from 2.30 P.M. until 5 P.M.

The work of the Course is the study of the more important diseases of agricultural crops and the methods of prevention applicable to them, and includes the consideration of parasitism, breeding of immune varieties, sprays and spraying machinery.

(b) FOREST MYCOLOGY.

Lectures and Laboratory Work on Thursdays, from 2.30 P.M. until 5 P.M.

The work of the Course is a study of the principal diseases of forest trees and methods of prevention applicable to them, and includes the breeding of immune varieties. The practical work is the examination of the principal tree diseases.

Fee for the whole Mycology Course, £2, 2s.

Summer Term.—A special Course for Veterinary Students.

Lectures and Laboratory Work once a week at 2.30 P.M.

Fee for this Course, £1, 1s., besides a Garden Fee of 5s.

F.—Bacteriology.

MALCOLM WILSON, D.Sc., *Lecturer.*

Summer Term.—Lectures and Laboratory Work on Tuesdays, at 2.30 P.M. Fee for the Course, £1, 1s.

For the First B.Sc. Examination the student takes Course A.

For the Final Examination in Pure Science on the Intermediate Standard, Courses B and D, on the Higher Standard Courses C, D, and F.

DEPARTMENT OF ENGINEERING.

A full description of the block of buildings in which the Engineering Department is housed, and of the equipment in the Laboratories will be found in the CALENDAR for 1912-13, p. 324.

The work of this Department includes Lectures, Drawing Office Work, practical work in the Laboratories, Surveying and Field Work, and visits to Engineering works and manufactories, details of which are given below.

It must be clearly understood that these Classes are not intended to supersede the practical training which can only be acquired in the office or workshop during a pupilage or its equivalent. The training given in these Classes, however, will be found to be of value in enabling those who have gone through them to obtain more advantage from the opportunities afforded them during their professional pupilage or apprenticeship.

Though primarily intended to meet the wants of students who propose to devote themselves to some branch of engineering, the work of the Classes will be found to be of direct practical value to those who are training for the profession of an architect, and also to all those who propose to engage in occupations directly connected with manufacturing industries.

COURSES OF STUDY.

Before deciding upon their courses of study, all Engineering students are strongly advised to consult the Professor of Engineering.

The following Courses are recommended for Civil, Mechanical, and Electrical Engineering students who are preparing for the degree of B.Sc. in Engineering :—

CIVIL, MECHANICAL, AND ELECTRICAL ENGINEERING.

FIRST YEAR.

All these Classes are taken in the University.

Whole Session.

Hour.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9	Technical Mathematics	Technical Mathematics	Technical Mathematics	Technical Mathematics	Technical Mathematics
10	Chemistry	Chemistry	Chemistry	Chemistry	Chemistry
11	Natural Philosophy	Natural Philosophy	Natural Philosophy	Natural Philosophy	Natural Philosophy
12					

Chemical Laboratory and Natural Philosophy Laboratory.—Hours to be arranged personally.

Summer Term.

9	—	Introductory Engineering	—	Introductory Engineering	—
10					
12	Junior Engineering Drawing Lecture	—	Junior Engineering Drawing Lecture	—	—
1					

Drawing Office.—Hours to be arranged personally. Students must attend for eight hours weekly.

CIVIL ENGINEERING.

SECOND YEAR—Autumn and Spring Terms.

University Classes printed in ordinary type; Heriot-Watt College Classes in italics.

1 = Autumn Term; 2 = Spring Term.

Hour.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9	Engineering Lecture 1 2	Engineering Lecture 1 2	Engineering Lecture 1 2	Engineering Lecture 1 2	Engineering Lecture 1 2
10	Theory of Machines 1	<i>Electrical Engineering Lecture</i> 2	Theory of Machines 1 <i>Electrical Engineering Lecture</i> 2	<i>Electrical Engineering Lecture</i> 2	Theory of Machines 1
11	Technical Mathematics 1 2	Technical Mathematics 1 2	Technical Mathematics 1 2	Technical Mathematics 1 2	Technical Mathematics 1 2
12	Engineering Drawing Lecture (Junior) 1 2	—	Engineering Drawing Lecture (Junior) 1 2	—	—

1	—	—	—	—	—
2	Engineering Laboratory I 2	Electrical Engineering Laboratory 2	Engineering Laboratory I 2	—	Engineering Laboratory I 2
4	—	—	—	—	—
Summer Term.					
9	—	—	—	—	—
10	Surveying Lecture	—	Surveying Lecture	—	Surveying Lecture
11	—	—	—	—	—
12	—	—	—	—	—
1	Surveying Field Work	—	Surveying Field Work	—	Surveying Drawing Office
2	—	—	—	—	—
3	—	—	—	—	—
4	—	—	—	—	—

Engineering Drawing.—Students must attend at the Drawing Office of the University for eight hours weekly throughout the Autumn and Spring Terms. Hours to be arranged personally.

CIVIL ENGINEERING—continued.

THIRD YEAR.

University Classes printed in ordinary type; Heriot-Watt College Classes in *italics*.
1 = Autumn Term; 2 = Spring Term; 3 = Summer Term.

Hour.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9	Engineering Lecture 1 2 3	Engineering Lecture 1 2	Engineering Lecture 1 2 3	Engineering Lecture 1 2	Engineering Lecture 1 2	—
10	Applied Mathematics 1 2 3	Engineering Lecture 1 2	Applied Mathematics 1 2 3	Engineering Lecture 1 2	Applied Mathematics 1 2 3	—
11	<i>Heat Engines</i> 1 2	<i>Heat Engines</i> 1 2	<i>Heat Engines</i> 1 2	<i>Heat Engines</i> 1 2	<i>Heat Engines</i> 1 2	—
12	Geology 1 2	Engineering Drawing Lecture (Senior) 1 2 3	Geology 1 2	Engineering Drawing Lecture (Senior) 1 2 3	Geology 1 2	Field Work in Geology 3
1	—	—	—	—	—	—
2	—	Engineering Laboratory	—	Engineering Laboratory	—	—
4	—	<i>Heat Engines</i> Laboratory 1 2	—	<i>Heat Engines</i> Laboratory 1 2	—	—
5	—	—	—	—	—	—

Engineering Drawing.—Nine hours a week must be spent in the Drawing Office during the Autumn, Spring, and Summer Terms.
Hours to be arranged personally.

MECHANICAL ENGINEERING.

SECOND YEAR—Autumn and Spring Terms.

University Classes printed in ordinary type; Heriot-Watt College Classes in italics.

1 = Autumn Term; 2 = Spring Term.

HOUB.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9	Engineering Lecture 1 2	Engineering Lecture 1 2	Engineering Lecture 1 2	Engineering Lecture 1 2	Engineering Lecture 1 2
10	Theory of Machines Lecture 1 2	<i>Electrical Engineering Lecture</i> 2	Theory of Machines Lecture 1 2	<i>Electrical Engineering Lecture</i> 2	Theory of Machines Lecture 1
11	Technical Mathematics 1 2	Technical Mathematics 1 2	Technical Mathematics 1 2	Technical Mathematics 1 2	Technical Mathematics 1 2
12	Engineering Drawing Lecture (Junior) 1 2	—	Engineering Drawing Lecture (Junior) 1 2	—	—
1	Engineering. Laboratory 1	—	—	—	—
2	—	<i>Electrical Engineering Laboratory</i> 2	Engineering Laboratory 1 2	—	Engineering Laboratory 1 2
4	—	—	—	—	—

MECHANICAL ENGINEERING—continued.

SECOND YEAR—Summer Term.

Hour.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9	—	—	—	—	—
10	Surveying Lecture	—	—	—	—
11	—	—	Surveying Lecture	—	Surveying Lecture
12	—	—	—	—	—
1	Surveying Field Work	—	—	—	—
2	—	—	Surveying Field Work	—	Surveying Drawing Office
3	—	—	—	—	—
3-30	—	—	—	—	—
4	—	—	—	—	—

Engineering Drawing.—Students must attend at the Drawing Office of the University for eight hours weekly throughout the Autumn and Spring Terms. Hours to be arranged personally.

THIRD YEAR.

University Classes printed in ordinary type; Heriot-Watt College Classes in italics.

1 = Autumn Term ; 2 = Spring Term ; 3 = Summer Term.

9	—	Engineering 1 2	—	Engineering 1 2	Engineering 1 2
10	Applied Mathematics 1 2 3	—	Applied Mathematics 1 2 3	<i>Machine Design Lecture</i> 1 2 3	Applied Mathematics 1 2 3
11	<i>Heat Engines Lecture</i> 1 2 3	<i>Heat Engines Tutorial</i> 1 2 3	<i>Heat Engines Lecture</i> 1 2 3	<i>Heat Engines Lecture</i> 1 2 3	<i>Heat Engines Lecture</i> 1 2 3
12	—	—	—	—	—
1	—	—	—	—	—
4	<i>Engineering Drawing</i> 1 2 3	Engineering Laboratory 1 2 3	<i>Engineering Drawing</i> 1 2 3	Engineering Laboratory 1 2 3	* <i>Heat Engines Laboratory</i> 1 2 3
5	—	—	—	—	—

Engineering Drawing.—Students must attend at the Drawing Office of the Heriot-Watt College for eight hours weekly.
* *Heat Engines Laboratory* may be taken on Thursday.

ELECTRICAL ENGINEERING.

SECOND YEAR—Autumn and Spring Terms.

University Classes printed in ordinary type ; Heriot-Watt College Classes in italics.
1 = Autumn Term ; 2 = Spring Term.

Hour.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9	Engineering Lecture I 2	Engineering Lecture I 2	Engineering Lecture I 2	Engineering Lecture I 2	Engineering Lecture I 2
10	Theory of Machines Lecture I 2	<i>Electrical Engineering Tutorial</i> 2	Theory of Machines Lecture I 2	<i>Electrical Engineering Lecture</i> 2	Theory of Machines Lecture I 2
11	Technical Mathematics I 2	Technical Mathematics I 2	Technical Mathematics I 2	Technical Mathematics I 2	Technical Mathematics I 2
12	Engineering Drawing Lecture (Junior) I 2	—	Engineering Drawing Lecture (Junior) I 2	—	—

1	Engineering Laboratory 1	—	—	—	—
2					
4		Electrical Engineering Laboratory 2	Engineering Laboratory 1	Engineering Laboratory 2	Engineering Laboratory 1
Summer Term.					
9	Physics Tutorial	—	Electrical Engineering	—	—
10	Surveying Lecture	—	Surveying Lecture	—	Surveying Lecture
11	—	Physics Lecture	Physics Lecture	Physics Lecture	
12					
1					
2	Surveying Field Work				Surveying Drawing Office
3					
3:30			Electrical Engineering Laboratory	Physics Laboratory	
4					

Engineering Drawing.—Students must attend at the Drawing Office of the University for eight hours weekly (Autumn, Spring, and Summer Terms). Hours to be arranged personally.

ELECTRICAL ENGINEERING—continued.

THIRD YEAR.

University Classes printed in ordinary type; Heriot-Watt College Classes in italics.
1 = Autumn Term ; 2 = Spring Term ; 3 = Summer Term.

Hour.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9	<i>Electrical Design Lecture</i> 1 2 3	—	<i>Electrical Engineering Lecture</i> 1 2 3	—	<i>Electrical Design Lecture</i> 1 2 3
10	Applied Mathematics 1 2 3	<i>Electrical Engineering Lecture</i> 1 2 3	Applied Mathematics 1 2 3	<i>Electrical Engineering Lecture</i> 1 2 3	Applied Mathematics 1 2 3
11	<i>Heat Engines Lecture</i> 1 2	<i>Heat Engines Tutorial</i> 1 2	<i>Heat Engines Lecture</i> 1 2	<i>Heat Engines Lecture</i> 1 2	<i>Heat Engines Lecture</i> 1 2
12	—	—	—	—	—
1	<i>Electrical Machine Design</i> 1 2 3	<i>Electrical Engineering Laboratory</i> 1 2 3	<i>Electrical Machine Design</i> 1 2 3	<i>Heat Engines Laboratory</i> 1 2	<i>Electrical Engineering Laboratory</i> 1 2 3

CHEMISTRY.

DR DOBBIN and PROFESSOR WALKER.

Lecture Course.

The Class meets on Mondays, Wednesdays, and Fridays, from 10 to 11, during the three terms. For Tutorial work, which is obligatory, the Class may be divided into two sections, which will meet on Tuesdays or Thursdays.

The lectures are devoted to Elementary Inorganic Chemistry embracing the more important metallic and non-metallic elements and their chief compounds, together with an introduction to Chemical Theory. Special lectures are given to Engineering students during the Summer Term.

Laboratory Course.

This Course should be taken in conjunction with the Lecture Course. It meets for two hours twice a week during the three terms. The work will include simple inorganic preparations, the detection of the chief inorganic elements and compounds, the qualitative analysis of simple alloys, and an introduction to volumetric analysis.

MATHEMATICS.

E. M. HORSBURGH, M.A., D.Sc., Assoc.M.Inst.C.E., *Lecturer.*

The Technical Classes (*c*) and (*d*) p. 208) are specially for Engineering and Technological students. These Classes are also recognised as constituting a *Double Course* in Mathematics for the ordinary degree of M.A.

Mathematics (c), First Technical Course.—Autumn, Spring, and Summer Terms. The work of the Class includes :—Elementary Algebra, Trigonometry, Plane and Spherical (with special reference to Surveying and Geodesy), Elementary Co-ordinate Geometry and Graph Tracing, use of Graphic Methods, Introduction to the Differential and Integral Calculus ; simple practical applications of these subjects, chiefly from the engineer's point of view.

Mathematics (d), Second Technical Course.—Autumn and Spring Terms. The work of the Class includes :—Use of Graphic

Methods, Spherical Trigonometry (with reference to Geodesy and Navigation), Elementary Co-ordinate Geometry, Differential and Integral Calculus, Simple Differential Equations; practical applications of these subjects, chiefly from the engineer's point of view.

NATURAL PHILOSOPHY.

PROFESSOR BARKLA and LECTURERS.

For Synopsis of Lecture and Laboratory Courses, see under FACULTY OF ARTS. The qualifying Course for students of Engineering is the Ordinary Natural Philosophy Course.

ENGINEERING.

PROFESSOR HUDSON BEARE.

During the first year of attendance at the University all Engineering students should attend the Introductory Course in Engineering.

During the second year of attendance they should all attend the Junior Courses during the Autumn and Spring Terms, and the Engineering Field Work during the Summer Term.

During the third year of attendance Civil Engineering students attend the Senior Courses during the Autumn, Spring, and Summer Terms; Mechanical Engineering students attend the Courses A and B of the Senior Course during the Autumn and Spring Terms.

Introductory Course.

Summer Term.

Lectures.—Tuesday and Thursday, 9-10 A.M.

The following subjects will be dealt with in these lectures:—

The Materials of Construction.—Cast iron, wrought iron, steel, copper, aluminium, alloys, limes and cements, bricks, stones, timber—their origin, preparation, properties, and uses.

Junior Course.**AUTUMN AND SPRING TERMS.**

Lectures and Tutorial Classes.—Daily, 9-10 A.M.

Laboratory Instruction.—Twice weekly (as arranged), 2-4 P.M.

Course A (Autumn Term).

W. GORDON, B.Sc., A.M.I.Mech.E., *Lecturer.*

The Strength and Elasticity of Materials.—Elastic stress and strain, elastic limit and yield point, ductile strains, ultimate strength, effects of variation and repetition of stress, resilience and shock. Factors of safety, hardening and annealing effects, stresses due to temperature changes.

Struts and columns, the bending of long columns; formulæ of Euler, Gordon, Rankine, and others for strength of columns.

Theory of bending; simple bending, bending moments, and shearing forces; moments of inertia and resistance of various sections, graphical methods; determination of stresses at any cross section of a beam, beams of uniform strength.

Deflection of simple beams, relations between curvature, slope, and deflection; deflection and slope from bending moment diagrams.

Built-in and continuous beams, theorem of three moments, graphical methods, resilience of beams, shearing, resilience and deflection due to shear. Reinforced concrete beams of rectangular cross section.

Compound stresses; direct and bending stresses, eccentric loads, struts and ties with lateral loads.

Torsion and shear; stress and strain in pure torsion, relation to twisting effort, modulus of rigidity; shafts of circular and square section. Combined twisting and bending, effect of end thrust.

Torsional resilience; helical springs close coiled. Stresses in thin cylindrical shells; riveted joints.

Course B (Spring Term).

J. B. TODD, B.Sc., A.M.I.Mech.E., *Lecturer.*

Elementary Hydraulics.—General principles, fluid pressure, centre of pressure, buoyancy, flow of water, steady and unsteady

motion, Bernouilli's Theorem, Venturi meter, discharge from orifices, notches and mouth-pieces, laws of fluid friction, flow in pipes, hydraulic gradient, effect of sudden enlargement or contraction.

Impact of water on vanes, reaction of jet, the Pelton wheel, over-shot and breast wheels, the Poncelet wheel.

Elementary principles of direct-acting and centrifugal pumps.

Theory of Machines.

PROFESSOR T. HUDSON BEARE.

Autumn Term.

Lectures and Tutorial Classes.—Monday, Wednesday, and Friday, 10-11 A.M.

Laboratory.—Once weekly (as arranged), 2-4 P.M.

Plane motion and its constraint; virtual motion in mechanisms; relative velocities in mechanisms; toothed wheel mechanisms; dynamics of mechanism; problems in machine dynamics; friction losses in machines; mechanical efficiency of motors, brakes, and dynamometers.

Engineering Field Work.

J. B. TODD, B.Sc., A.M.I.Mech.E., *Lecturer.*

Summer Term.

Lectures.—Monday, Wednesday, and Friday, 10-11 A.M.

Practical Work in Field and Drawing Office Work.—Monday, Wednesday, and Friday, 11 A.M. to 4 P.M.

The subjects dealt with include Surveying with the chain and with angular instruments; Levelling; the Optical and Mechanical Principles, Tests and various Adjustments of Surveying and Levelling Instruments; Setting out of Curves; Triangulation and Tacheometry.

Note.—All Civil Engineering students who have the available time are strongly advised to repeat attendance on this Course during their third year of attendance at the University. For

such students advanced practical work in the field will be provided, including Plane-Table Work, etc. There will also be a short Course of Advanced Lectures for such students dealing with portions of the subject not overtaken in the regular Lecture Course.

Senior Course.

Course A (Autumn Term).

J. B. TODD, B.Sc., A.M.I.Mech.E., *Lecturer.*

Lectures and Tutorial Classes.—Tuesday, Thursday, and Friday, 9-10 A.M.

Laboratory Instruction.—Twice weekly (as arranged), 2-4 P.M.

Advanced Hydraulics.—Laws of flow in channels and pipes; gauging of streams; weirs and meters. Turbines, reaction, outward, inward, and axial flow; forms of guide and wheel vanes; losses due to frictional and other resistances; efficiency.

Centrifugal and turbine pumps and their efficiencies; reciprocating pumps; slip, air vessels; diagrams of work done; variation of work done due to inertia. Hydraulic machines; the accumulator; differential accumulators; intensifiers; hydraulic cranes and presses; hydraulic riveters; hydraulic engines.

Course B (Spring Term).

W. GORDON, B.Sc., A.M.I.Mech.E., *Lecturer.*

Lectures and Tutorial Classes.—Tuesday, Thursday, and Friday, 9-10 A.M.

Laboratory.—Twice weekly (as arranged), 2-4 P.M.

Advanced Materials and Structures.—Development of selected portions of Junior Syllabus. Stresses and strains in thick cylinders; rotating rings, drums, and discs; whirling of shafts; curved beams; crane hooks; open coiled helical springs, plate springs, spiral springs; reinforced concrete beams and columns; flat plates and slabs. Applications of foregoing in the design of structures and machines.

*Course C (Autumn, Spring, and Summer Terms)***Civil Engineering.**

PROFESSOR T. HUDSON BEARE.

Lectures and Tutorial Classes.—Mondays and Wednesdays, 9-10 A.M. ; Tuesdays and Thursdays, 10-11 A.M.

Autumn Term.

Waterworks.—Rainfall, methods of measurement, variation, losses by evaporation, etc., available rainfall, measurement of flow off a given catchment area. Storage of water and construction of reservoirs; earthen and masonry dams; service reservoirs. Purification of water, sand filter beds, mechanical filters; softening of hard waters. Construction of aqueducts and laying of pipes; cast-iron and steel pipes, their manufacture, and tests applied; pipe jointing.

Sewers and Sewage Disposal.—Volume and variation of flow, separation of rain water; determination of sizes of sewers, their construction, methods of ventilation, storm-water overflows, outfall works. Chemical treatment at the outfall works, settlement tanks, volume of sludge produced, disposal of sludge, sludge steamers, sludge presses, treatment of the effluent from the settlement tanks on sewage farms, degree of purification obtainable. Bacterial treatment, screening tanks, filtering media for bacteria beds; contact beds and their operation; percolation filters, determination of dimensions, open troughs and sprinklers of various forms, treatment of trade wastes.

Spring Term.

Railways and Tramways.—Permanent way; rails, chairs, and fastenings; sleepers and ballast. Embankments and cuttings, computation of volumes, methods of constructing and draining. Tunnels, method of driving and lining tunnels and shafts; deep level tunnels, excavation by use of Greathead and similar shields, sections of cast-iron lining. Stations, terminal and intermediate, general arrangement. Station roofs, various types used, their design and erection. Bridges, various types for road bridges, bridges over streets in towns and over rivers; live and dead loads.

Roads.—Resistance to traction on roads; laying out new roads; earthworks, drainage, etc. Road materials or metal; quarrying, stone breaking; road rolling. Wood pavements, asphalt pavements; footways.

Summer Term.

Harbours and Breakwaters.—Marine surveys; motion of waves, tides and their action on coasts and channels, sea defences, improvement of tidal rivers and estuaries, quays, piers. Docks and deep water basins, dock walls, entrance locks, lock gates, machinery for opening and closing gates, dry docks. Breakwaters and their construction.

River Works.—Tides and motion of water in tidal rivers. Bars at the mouths of rivers. Improving tidal rivers. Training. Dredging.

Engineering Drawing.

W. HUME KERR, M.A., B.Sc., and H. C. GARDHAM, B.Sc.,
Lecturers.

The work of these Classes consists of Lectures and Practical Instruction in the Drawing Office. The Drawing Office will be open daily from 9 A.M. to 5 P.M., and on Saturdays from 9 A.M. to 1 P.M.

Each student is required to attend at least eight hours per week—the times of attendance to be arranged at the beginning of the term. Every student, however, is expected to devote additional time to Drawing Office work.

For Graduation purposes two full Courses (one Junior and one Senior) are prescribed. Each Course extends over three terms, as the whole scheme of work has been arranged to form a Six Term Course.

As the instruction given is not entirely with a view to examination, these Classes will also be found useful to those who propose to become Architects or Surveyors, or who desire to study Structural Design.

It will be possible to take the Classes of Engineering Field Work and Drawing during the same term, as the hours of attendance can be arranged so that the whole work of both Classes may be overtaken.

In each Class one Examination is held towards the end of each term. Marks are assigned for Class work, and these, along with the Examination Marks, determine the Class results.

Students should also bear in mind that drawings made in Class are to be produced at the time of the Degree Examinations.

JUNIOR COURSES—Summer Term of First Year.

Lectures on Monday and Wednesday, at 12 noon.

Projective Geometry.—Plans and Elevations; Sections of Solids; Interpenetration; Development; Isometric Projection.

Loci.—Geometrical Loci; Point Paths in Mechanism; Link Work; Cams; Curves of Velocity and Acceleration.

Autumn Term of Second Year.

Lectures on Monday and Wednesday, at 12 noon.

Graphical Calculus.—Signs of Lines and Areas; Addition and Multiplication of Vectors; Powers and Roots; Vector and Link Polygons; Areas and Plane Figures; Integration Polygon; First and Second Moments; Centroids; Moment of Inertia; Rectification of Circular Arcs and Areas; Curves of Hydraulic Mean Depth and Discharge.

Spring Term of Second Year.

Lectures on Monday and Wednesday, at 12 noon.

Graphical Statics.—Assumed Framing and Funicular Polygon; Moments of Forces; Bending Moment and Shearing Force Diagrams for Fixed and Moving Loads; Determination of Equivalent Loading on Railway Bridges; Reciprocal Figures; Stresses in Framed Structures, Roofs, and Bridges, with Dead and Live Loading; Line of Resistance; Theory of the Elastic Line; Influence Lines.

SENIOR COURSE—Autumn, Spring, and Summer Terms.

Lectures on Tuesday and Thursday, at 12 noon.

This Course is arranged to be as far as possible a progressive Course of Civil Engineering Design, in which the students will apply practically the instruction they receive in the lectures. It

will include therefore the complete design throughout and the making of working drawings of the details of girders, of steel bridges and roofs, and of structures in masonry, timber, etc. Instruction will be given in inking and colouring and in the photographic methods of reproducing tracings, etc.

In the third term the Classwork will include Building Construction, Design in Timber and Masonry, with details of Roofing, Slating, Plumbing, etc. The theory of the Arch will be applied to the Design of Arches in Masonry, Reinforced Concrete and Steel, when subject to moving loads; and other advanced problems in design will be dealt with as time permits.

Each student will be required to design every detail of the several structures dealt with, to make complete dimensioned drawings, to prepare a full draft of his calculations, and to estimate the final weight of each structure as designed.

Private reading bearing on the Class work is prescribed, and one examination held in each term.

Engineering Laboratories.

The Engineering Laboratories are intended to provide systematic instruction in the experimental methods which serve for determining the numerical data employed in Engineering calculations, and to familiarise students with the strength and other physical properties of the chief materials used by Engineers. Such instruction is valuable for two reasons. In the first place, only those who have had practical acquaintance with experimental processes can judge of the limits of accuracy of numerical data derived from experiments; and in the second place, engineers are frequently called upon to make special experiments for their own guidance, and in such cases a previous training in the art of experimental investigation and in the methods which have been successfully adopted by others will be found to be of the utmost value.

As the instruction in the laboratory is, to a large extent, individual, it is possible for students to enter at any period of the session. Advanced students, especially those who have already been engaged in practical work before entering the University, are encouraged to undertake original investigations on matters in relation to which Engineers still require experimental data.

A six months' Laboratory Course, with attendance during at least two whole days in the week, is a qualifying Course for the Final Bachelor of Science (Engineering) Examination.

Municipal Engineering.

The attention of students attending the Engineering Class, who propose to devote themselves to such work as falls within the scope of what is usually called Municipal or Sanitary Engineering, is directed to the Course of Lectures on Sanitary Engineering and Building Construction, which has been specially arranged for candidates for Degrees in Public Health. For full details, see under Public Health, p. 385.

Heriot-Watt College.

MECHANICAL ENGINEERING.

PROFESSOR STANFIELD and STAFF.

**Course on the Theory and Practice of Steam,
Gas, and Oil Engines.**

Third Year—Autumn, Spring, and Summer Terms.

Lectures.—Monday, Wednesday, Thursday, and Friday, 11-12.

Tutorial.—Tuesday, 11-12.

Laboratory.—Thursday or Friday, 1-4.

This Course is intended for students who are qualifying for the degree of B.Sc. in Civil, Mechanical, or Electrical Engineering. Mechanical Engineering students take it for the three terms, Civil and Electrical Engineering students for the first two terms only.

Thermodynamics.—Theory of the steam-engine; calculation of internal and external energy; thermal efficiency; properties and laws of steam and permanent gases; efficiency of perfect heat-engine; calculation of density of steam; entropy; efficiency according to the Rankine cycle; cylinder condensation; super-heating; compounding.

Engine and Boiler Testing.—Calorific value of fuels ; calorimeters ; flue gas analysis ; radiation and other losses in boilers ; heat balance-sheet ; indicators and indicator diagrams ; determination of moisture in steam ; steam calorimeters ; effect of jackets ; Willans' law ; brakes ; testing indicators and gauges.

Steam Engines.—Various forms ; high-speed engines ; types of compound engines ; computation of size for a given horsepower ; condensers ; theory and construction of steam turbines.

Boilers.—Various types — economical combustion of fuel ; mechanical stokers ; grate and heating surfaces ; evaporative power ; economisers and feed-heaters ; injectors ; boiler inspection ; natural, forced, and induced draught ; superheaters ; boiler fittings ; non-conducting compositions for boilers and steam-pipes ; steam-traps.

Gas and Petroleum Engines.—The different cycles of operations ; various modern forms ; Diesel engine ; motor car engines ; methods of igniting and governing ; scavenging principle ; testing gas and oil engines ; gas and oil calorimeters ; vaporisation and flash-points of petroleum ; efficiency of gas and oil engines ; producer gas, gas producers ; blast-furnace gas for motive power ; starting gear.

Dynamics of Steam and other Engines.—Crank-effort diagrams ; inertia forces. Fluctuation of velocity ; fly-wheels ; velocity curves. The slide valve ; valve diagrams. Link motions ; Corliss and drop-valve gears. Governors, their design and construction. Balancing of Engines.

During the above Course students will carry out complete engine and boiler tests with the experimental engines and boilers ; also gas and oil engine tests, etc.

Course on Machine Design.

Third Year—Three Terms.

Lecture.—Thursday, 10-11.

Drawing.—Monday and Wednesday, 1-5.

This Course is intended for students who are qualifying for the degree of B.Sc in Mechanical Engineering.

More advanced work in connection with Machine Design will be taken up. Specifications of boilers, engines, pumps, machine tools, etc., will be submitted, and students will be required to produce designs to them.

Transmission of power by gearing belts and ropes; helical and screw gearing; connection of non-parallel shafts; engine details; piston and connecting rods, cylinders, valves, etc.; the balancing of engines, marine and locomotive; foundations and the erection of shafting and machinery; boilers and boiler fittings; steam piping; hydraulic machinery.

It is intended to take up the entire design of some form of machine or prime mover in each year. The work of these Classes will be arranged so as to form a progressive Course of Engineering Design, the students applying practically in the Drawing Office the instruction given in the lectures.

ELECTRICAL ENGINEERING.

PROFESSOR BAILY and STAFF.

Elementary Electrical Engineering.

Second Year—Spring Term.

Lectures.—Monday, Tuesday, and Thursday, 10-11.

Tutorial Class.—Wednesday, 10-11.

Laboratory Class.—Tuesday, 2-4.

This Course is intended for students who are qualifying for the degree of B.Sc. in Civil, Mechanical, or Electrical Engineering.

Syllabus.

Units employed in Electrical Engineering and their relation to mechanical and thermal units; instruments for measuring current and pressure; resistance, carrying capacity, and volt drop in cables; construction of cables; insulating materials; switches, fuses, and mechanical protection of cables; supply meters.

Accumulators, construction and use ; glow lamps and arc lamps, efficiency and construction ; methods of lighting ; calculation of illumination.

The theory and construction of direct current dynamos and motors ; the properties of shunt, series, and compound-wound machines ; the starting and speed regulating of motors, the limits of output, continuous and intermittent rating.

Elementary principles of alternating currents ; impedance of a circuit ; power factor ; alternators and transformers ; polyphase currents ; induction motors, construction, properties, and methods of control.

Summer Term.

Lecture.—Wednesday, 9-10.

Laboratory.—Wednesday, 1-4.

This Course is intended for students who are qualifying for the degree of B.Sc. in Electrical Engineering.

Syllabus.

The testing of dynamos and motors, calculation of efficiency and determination of properties from characteristic curves. Theory of alternating currents, use of vectors, compounding of vectorial quantities, calculation of impedance, power factor, inductance, and reactance. Testing of alternating current machinery and apparatus.

Electricity and Magnetism.

MR W. WATSON, M.A., B.Sc.

Second Year Course—Summer Term.

Lectures.—Tuesday, Wednesday, Thursday, 11-12.

Tutorial.—Monday, 9-10.

Laboratory.—Thursday, 1-4.

This Course is intended for students who are qualifying for the degree of B.Sc. in Electrical Engineering.

Syllabus.

The electro-magnetic system of units; galvanometers; measurement of resistance of solids and liquids; measurement of current and electro-motive force; electrical standards; electrolysis; batteries; thermo-electricity; magnetic theory and laws of magnetic circuit; magnetic properties of materials; self and mutual induction; Lenz' Law; theory of induced currents; ballistic galvanometer; induction coils; laws and theory of electro-statics; the electrometer; action and properties of the dielectric; theory of potential; influence machines; electrical discharge.

Third Year Course in Electrical Engineering.

The Third Year Course is intended only for those students who are qualifying for the degree of B.Sc. in Electrical Engineering. Two sets of lectures are given concurrently through the session, one on general theory and the technical applications of electricity, the other on the theory and design of electrical machines. Students will work in the Laboratory for two afternoons in each week, and two afternoons in the Drawing Office.

Lectures.—Monday, Wednesday, and Friday, 9-10; Tuesday and Thursday, 10-11.

Laboratory.—Tuesday and Friday, 1-4.

Drawing Office.—Monday and Wednesday, 1-4.

*General Theory and Technical Applications.**Autumn Term.*

The fundamental standards of electrical measurements, absolute and relative measurement, accuracy and probable error, varieties of error. Deflection and null methods. Determination of constants and equations to curves, method of least squares, graphical differentiation and integration. Sensibility of instruments, the pre-determination of accuracy in an experiment. Measurement of current, potential difference, and resistance over wide range. Standards and methods of measurement in the photometry of lamps.

The general theory of alternating currents ; circuits with self-induction and capacity, non-sinusoidal waves, Fourier's theorem. Single-phase instruments, both standard and commercial, supply meters. Theory of alternators, parallel running ; synchronous motors, regulation and power factor ; synchronising apparatus ; phase swinging in systems with synchronous motors.

Theory of polyphase currents, mesh and star connections, relation of current and E.M.F. ; power and power factor of polyphase circuits, wattmeters and supply meters. Transformers on polyphase circuits. Circuits with earthed centre and unbalanced loads. Polyphase alternators.

Spring Term.

Induction motors ; circle diagram, methods of starting and control, speed variation, combination in cascade ; single-phase induction motors.

Rotary converters and motor converters, ratio of conversion, methods of regulation, starting and parallel running.

Commutator motors, theory of simple and compensated series, repulsion and compensated repulsion motors, vector diagrams, speed and load characteristics, methods of control.

Systems of distributing electric current ; direct current constant potential three-wire system ; constant current system ; alternating current transformer systems — single-, two-, and three-phase.

The design of central stations and sub-stations ; the influence of load factor on the design of the station and cost of production ; linking of stations ; switch-boards for low and high pressure.

Electric cables, design and methods of laying ; capacity and dielectric strength of cables ; design of feeders and networks ; testing of cables. Overhead lines for extra high pressure, insulators, static discharge, protection from lightning, strain on posts.

Summer Term.

Applications of electricity, combinations of motors with machinery, variation and control of speed, fly-wheel equalisers.

Electric traction, calculation of tractive effort, friction of track, acceleration and deceleration ; design of motors for heavy traction

and for tramcars; controllers and brakes; alternating current motors. Systems of distribution of current, third rail, overhead, slot, and surface contact; construction of track and electric lines. Central stations for traction.

Telegraphy, the instruments and connections used in single needle, Morse simplex, differential and bridge duplex, quadruplex, and high-speed automatic working; repeater stations. Construction of land lines, capacity of aerial and underground conductors.

Telephony, the instruments, switch-boards, and connections, used in simple systems; systems for towns; grouping of exchanges; trunk connections. Influence of capacity and resistance; design of cables and overhead wires; loading of cables.

Wireless telegraphy, general theory of the methods; aeri-als, transmitters, and receivers; tuning of circuits; the effect of close and loose coupling; influence of atmospheric conditions.

Wireless telephony, the sensitive arc, method of production and transmission of telephonic signals; receivers.

Electrical Machine Design.

Autumn Term.

Magnetic properties of iron and steel used for the magnetic circuits of dynamo-electric machinery, permeability curves, alloyed iron; calculation of losses due to hysteresis and eddy currents. The magnet circuit in general, graphical methods, determination of ideal pole arc; ampere turns for air-gap, teeth, pole cores, and yoke; leakage coefficient.

Design of direct current machines, output coefficient; determination of armature winding, types of winding, rules for connecting, use of equalising rings; armature reaction, compensating winding; sector voltage; design of magnet coils, losses, heating, and efficiency; commutation, fundamental equations, properties of the carbon brush, self and mutual induction of short-circuited coils, reactance voltage, calculation of commutating poles and windings; design of turbine dynamos, variable speed and totally enclosed motors, motors for intermittent rating, low voltage and unipolar dynamos.

Spring Term.

Design of static transformers, single and polyphase, core and shell types; design for given no-load losses, for minimum total

losses, equations of cost; determination of no-load and short-circuit currents, regulation, methods of insulating and cooling.

Design of alternators and synchronous motors for low and high speeds; armature reaction, regulation and efficiency; rotary converters, number of phases, heating, commutation, methods of compounding, split-pole converter.

Design of induction motors, calculation of stator winding, magnetic circuit, no-load and short-circuit currents; squirrel cage and wound rotors, determination of power factor, starting and maximum torque.

Summer Term.

This Term will be occupied in the design of special types of machines to complete specifications such as are most commonly met with in commercial work.

In the Drawing and Tutorial Classes held in connection with these lectures the students individually work out in detail, and draw, complete designs of the more important types of machines, each student making several finished designs during the session.

APPLIED MATHEMATICS.

C. G. KNOTT, D.Sc., LL.D., *Lecturer.*

The Advanced Science Course on Applied Mathematics, of sixty lectures, is adapted for Engineering students. In the treatment of the subject the simpler processes only of the differential and integral calculus will be used. The Course will include the Dynamics, Kinematics, Kinetics, and Statics, of particles, rigid and deformable solids, flexible cords, and fluids.

Books recommended.—Rankine's *Applied Mechanics*; Worthington's *Dynamics of Rotation*; Crabtree's *Spinning Tops and Gyroscopic Motion*; certain sections of Barton's *Analytical Mechanics*.

GEOLOGY AND MINERALOGY.

PROFESSOR JEHU.

For Synopsis of Lectures, see Course C, under PURE SCIENCE.

DEPARTMENT OF PUBLIC HEALTH.

LABORATORY WORK.

PROFESSOR HUNTER STEWART.

(I) Chemical and Physical Work.

AIR.—Temperature, Maximum and Minimum Thermometers—Pressure—Reading of Barometer, and correction for Elevation and Temperature—Moisture—Dew Point by Daniell's Hygrometer and Wet and Dry Bulb Thermometers—Determination of Absolute and Relative Humidity—Quantitative Determination of Carbonic Acid.

SOIL.—Determination of Water Capacity—Porosity and Permeability of Sand and Loamy Soil—Determination of Ammonia and Organic Nitrogen in Soil, and of Carbonic Acid in Ground Air—Use of Earth Thermometers.

WATER.—Total Solid Residue and Quantitative Estimation of Lime, Magnesia, and Sulphuric Acid in a Water Residue—Chlorides—Hardness—Lead in Water (colorimetrically)—Organic Matter in terms of "Albuminoid Ammonia," Organic Carbon and Nitrogen, and as "Oxygen required"—Nitrates and Nitrites. Oxygen dissolved.

Sewage.—Composition of Sewage and of Effluents from Purification Works.

FOODS.—*Cereals, etc.*—Estimation of Albuminoids by Kjeldahl's Method, Fat by Extraction, Starch by conversion into Sugar.

Milk, Butter and Margarine, Tea, Coffee and Cocoa, Wine, Beer, and Lime Juice, etc.

DISINFECTANTS.—Estimation of available Chlorine in Bleaching Powder—Determination of Comparative Value of different Disinfectants by lethal action on Microbes.

VENTILATION.—Determination of the amount of Carbonic Acid and of moisture in the air of an occupied room.

During this part of the Course, Laboratory Lectures are given, when the rationale of the methods and the interpretation of the results are discussed.

(II) Bacteriological Work.

The subject of the Laboratory Lectures during this part of the Course consists of a consideration of:—

The Morphology and Classification of the Micro-organisms—Sterilization by Dry and Moist Heat—Disinfection—Methods of Cultivation—Methods of obtaining Pure Cultures in Solid and Liquid Media—Anærobic Micro-organisms, and the Methods for their Culture—Bacterial Products, Ptomaines and Antitoxins—Micro-organisms in Water, Air, and Soil—Removal of Micro-organisms from Water (1) on the large scale by Sand Filtration—Construction and working of Filter Beds—Theory of Sand Filtration—(2) on the small scale by Pasteur-Chamberland, Berkefeld, and other Filters—Micro-organisms in Milk—Sterilization of Milk on small and large scale—Pasteurization of Milk.

Practical work by each worker—Sterilizing all glass apparatus, *e.g.* tubes, dishes, pipettes, etc.

Preparation in all stages of the following Culture Media—Nutrient Broth, Jelly, and Agar Agar, Blood Serum, Potato Gelatine, Worts Gelatine, Glycerine Agar, Potatoes, etc.

From a mixture of several Micro-organisms to get a pure Culture of *one*.

Cultivation, staining, and microscopical examination of:—

Mould Fungi.—*Penicillium*—*Aspergillus*—*Mucor*.

Yeast Fungi.—Yeast—*Mycoderma Vini*.

Fission Fungi.—The ordinary bacteria found in Air, Water, Soil, or Milk: *e.g.*, *Bacillus subtilis*, *Mycoides*, *Megaterium*, *Proteus*, Lactic Acid, *Prodigiosus*, *Micrococcus aurantiacus*, *Ureæ*, etc.; and also the following pathogenic forms—Tubercle, Diphtheria, Anthrax, Typhoid, Tetanus, Cholera, Plague, *Coli communis*, Enteritidis, Malignant œdema, Symptomatic Anthrax, *Streptococcus pyogenes*.

Bacteriological examination in cases of Suspected Infectious disease—

- (1) *In Man*.—Tubercle, Diphtheria, Typhoid Fever, Plague, Cholera, etc.
- (2) *In Lower Animals*.—Tubercle, Anthrax, Symptomatic Anthrax, etc.

Cultivation of Micro-organisms in Air, in Soil, and in Water.

PHYSICS.

PROFESSOR BARKLA and LECTURERS.

A practical Course of 60 hours in the following :—

(1) *Properties of Solids and Fluids*.—Specific gravity, elasticity as exhibited under tension, torsion and flexure; laws of liquid pressure; surface tension; viscosity of liquids; variation of volume with pressure for gases and vapours.

(2) *Heat*.—Corrections of thermometers; variation of the volume of a gas with temperature; pressure of vapour in the atmosphere; boiling points; specific heat; latent heat.

(3) *Light*.—Focal lengths and magnifying powers of lenses and systems of lenses; refractive indices of solids and liquids; photography; laws of polarisation of light; rotation of the plane of polarisation; spectrum analysis.

(4) *Electricity*.—Resistance of wires, electrolytes, galvanometers and batteries; determination of strength of current.

GEOLOGY.

PROFESSOR JEHU.

For Synopsis of Courses, see under PURE SCIENCE (Courses A or C).

PUBLIC HEALTH AND SANITARY SCIENCE.

PROFESSOR HUNTER STEWART.

1. Sanitary Law, specially the Public Health Act (Scotland), 1897—The English Acts—Notification of Infectious Diseases—Housing of the Working Classes—Factories—Cowsheds and Dairies—and Nuisance removal Acts, etc., Bye-laws.

2. Vital Statistics—Census, how determined—Death Rates, crude, corrected and standard—Birth and Marriage Rates—Life Tables—Zymotic Death Rate—Age Rate, Case Mortality—Variations in Case Incidence and Case Mortality—Value of Vital Statistics in Public Health Work—Mortality as affected by Occupation—Sickness Rates, etc.

3. *Epidemiology*.—Medicine in relation to Public Health—Immunity—Prophylaxis—Vaccination—Geographical distribution and etiology of the infectious diseases—Diseases of Animals communicable to man—Food Poisoning—Climates as determined by prevalent winds, temperature, moisture, altitude, and soil—Tropical, Temperate, and Arctic Climates.

4. Practical Sanitation—Water Supplies—Infectious Diseases Hospitals—Disinfection of clothing, dwellings, and discharges from sick—Slaughter-houses—Meat inspection—Ventilation—Sewage disposal—Hygiene of Schools—Disposal of the dead.

**SANITARY ENGINEERING, BUILDING
CONSTRUCTION, ETC.**

PROFESSOR HUDSON BEARE.

Autumn and Spring Terms.

Tuesday and Friday, 11-12.

(1) Site, environment, and construction of dwellings, sanitary fittings in houses.

(2) Water supply and distribution.

(3) Collection, treatment and disposal of sewage and other refuse.

(4) Air Supply, Ventilation, and Warming.

(5) Nature, strength, and fitness of structural materials employed in sanitary works.

(6) Design of sanitary works, municipal and domestic.

INSTRUCTION IN MENSURATION AND DRAWING.

W. HUME KERR, M.A., B.Sc., and H. C. GARDHAM, B.Sc.,

Lecturers.

Autumn and Spring Terms.

The Course will include the following subjects :—Scales, their Construction and Uses—Estimation of Areas and Volumes—

Elements of Plane and Solid Geometry, and their application to the making of Structural Drawings from Models and Figured Sketches—The use of the Slide Rule and other Calculating Instruments—Plotting of Land Surveys and Sections—Elementary Building Construction.

This Class may be attended either during the Winter or the Summer session. A minimum attendance of 60 hours is required during the session. The drawing office is open daily from 10 A.M. to 4 P.M. There is one class examination.

CLINICAL INSTRUCTION

Regarding Fevers and Infectious Diseases, during Three Months, in a Recognised Hospital.

DEPARTMENT OF AGRICULTURE.

MATHEMATICS.

PROFESSOR WHITTAKER and LECTURERS.

As for M.A. See FACULTY OF ARTS.

ZOOLOGY.

PROFESSOR EWART.

See under PURE SCIENCE. See also page 452

BOTANY.

PROFESSOR BALFOUR.

See under PURE SCIENCE.

NATURAL PHILOSOPHY.

PROFESSOR BARKLA and LECTURERS.

For Lecture and Laboratory Courses, see under FACULTY OF ARTS.

The Qualifying Course for students of Agriculture is the Ordinary Natural Philosophy Course, including lectures and practical work.

CHEMISTRY.

PROFESSOR WALKER and LECTURERS.

For Classes, see under PURE SCIENCE, First Year's Lecture and Laboratory Courses

AGRICULTURE AND RURAL ECONOMY.

PROFESSOR WALLACE.

Definition of Agriculture.—Aid given by the Allied Sciences.

Surface Geology.—Formation and Classification of Soils—Properties. Organic Nitrogen. Indications of Quality—Management—Mixing or Top-dressing—Claying—Marling—Liming—Clay-burning. The Effect of Cultivation and of Plant Growth.

Drainage.—Its practice and advantages—Irrigation.

Implements and Machines.—Construction and management.

Steam Cultivation.—Advantages and disadvantages. Development of the Land Digger and the Farm Motor.

Motive Powers employed on the Farm.—1st, Man ; 2nd, Horse ; 3rd, the Mechanical Powers—Water, Wind, and Steam, etc.

Farm Servants.—Labour and Wages—Day-work and Piece-work. Detailed and total costs of Horse and Hand Labour.

Importance of Rotations of Crops.—Different Rotations, and reasons why they are adopted—Systems of Farming.

Farm Crops (Grain, Root, Forage, and Hay Crops).—Selection and Growth—Prevention of insect injuries and diseases.

Grasses and other Pasture Plants.—Character and habits—Detection of Adulterations—Protective means in buying seeds.

The Management of Permanent Pasture.—Proper methods of making new pasture—its after-treatment.

Weeds in Pastures, and means of destroying them.

Silage and the System of Ensilage.—Its advantages, etc.

Manures.—Farm-yard Manure. Special manures and so-called "artificial." Liquid Manure and Town Sewage.

Buildings and Fences.—The proper construction of fences—Byres, Cattle-sheds, Stables, etc.—Covered Yards—Ventilation—Drainage.

Live Stock (embracing Cattle, Pigs, Horses, Sheep, and Dogs).

Dairying.—Dairy Stock and their management—the treatment of milk, and its sale or manufacture into Cheese, Butter, etc.

Textbooks.—Wallace's *Farm Live Stock of Great Britain*, M'Connell's *Note-Book of Agricultural Facts and Figures* and *The Complete Farmer*, Hall's *Soils and their Properties* and *Manures and Fertilisers*, Board of Agriculture Leaflets.

Extra class meetings will be devoted to Practical and Tutorial Instruction.

Periodical visits will be made to farms on Saturdays. A medal may be given for the best report on these excursions.

Advanced and Tutorial Agriculture.

PROFESSOR WALLACE and MR WATSON.

The Principles of Breeding.—Theories of heredity—variation—inheritance. Mendel's law. Statistical study of heredity. Practical application of the laws of heredity in animal breeding. Systems of breeding—inbreeding, line-breeding, and systematic crossing.

Live Stock—Horses.—Characteristic of principal market-types of horses—heavy and light draught, harness, and saddle. Various pure breeds used for the production of these classes and their special characteristics. Feeding and management.

Cattle.—Classification of cattle as beef, dual-purpose, and dairy. Possibility of combining beef and dairy characteristics. Value of milk records. Classification of British breeds and the special characteristics of each. History of the shorthorn. Various methods of rearing. Rations for dairy cows, for young stock, and for fattening steers.

Sheep.—Classification of British breeds. Valuable characteristics of wool. The most suitable breeds and crosses for the production of fat lambs, hoggets, and wether mutton respectively. General management of sheep—hill and lowland. Feeding fat lambs, hoggs, and wethers.

Pigs.—British breeds. Breeding, rearing, and feeding.

Stock Judging.—Practical work with stock will be taken up

in town stables and byres, at the stock markets, Gorgie, and on farm excursions.

Farm Management.—The use of land. Natural and economic conditions determining the most profitable use of land as forest, pasture, arable, market garden, or orchard. The relative economy of large and small holdings under different conditions.

Landlords' capital. Profitable and unprofitable investment in buildings, fences, drainage, etc.

Systems of land tenure. Tenancy and occupying ownership.

Tenants' capital. Its profitable application. Conditions determining the most profitable pitch of fertility.

Typical systems of farming in Britain and their adaptation to local conditions.

The degree of intensiveness with regard to hand and horse labour. Inter-relationships between hand labour and machines.

The cost of hand and horse labour. The costs of the common operations of tillage. The costs of production and the financial returns of the various grain, root, and forage crops. Profits from the various branches of the live stock industry, and the land and labour conditions under which each may be economically carried on. Conditions for successful dairying. Cost of producing milk. Relative returns from fresh milk, butter, and cheese.

Capitalisation, stocking, income and expenditure of typical British farms. Methods for the checking of results and profits. Agricultural co-operation.

Textbooks.—Craig's *Judging Live Stock*; Eckles's *Dairy Cattle and Milk Production*.

Twenty extra class meetings will be devoted to Practical Demonstration Work.

Eight farm excursions will be made during the session.

THE GARTON LECTURES ON COLONIAL AND INDIAN AGRICULTURE.

(Free to present and last year's Students of Agriculture.)

PROFESSOR WALLACE.

Session 1919-20, 20 Lectures.

The Dominion of Canada.

Eastern Provinces.—Ontario, Quebec, New Brunswick, Nova Scotia, Prince Edward Island (the garden of Canada)—The Lead-

ing Features of the country—The Agricultural Practices of these older settled areas—The Dairy Industry—Exports of Cheese and Butter.

Manitoba and the North-West Territories.—System of Government Survey into Townships of six miles square—Wheat-growing on the Prairies—Elevator System of handling Grain—Cattle Ranching—Sheep Breeding and Feeding—The Advantages of Mixed Farming—The Scotch Crofter Settlements.

British Columbia.—Its Grazing Capabilities—Its Agricultural Resources, with special reference to the Peace River District.

Government Aid to Agriculture.—The Experimental and Demonstration Farms—Agricultural Education, with special reference to the Guelph Agricultural College, Ontario.

Australasia.

The Distinctive Features (orographical, geological, etc.) of the various Colonies—New South Wales, Victoria, South Australia, Queensland, Western Australia, New Zealand, and Tasmania.

Crop Cultivation.—Rotations—Cereals—Forage—Potatoes—Diseases, Fungoid and Insect Attacks, and the Injurious Influences of Climate—Grape-growing—The Wine Industry—Trade with Europe.

Pasture.—Good Native Grasses—Salt Bushes—Injury to Sheep and Wool from spear grass and bur clover (*Medicago denticulata*).

Water Supply.—Irrigation (especially in Victoria)—Artesian Wells (chiefly in Queensland)—Rainfall—Periodic Droughts—Desert Country.

Reclamation of Land.—“Ring-barking” Forest Areas—“Bush-falling”—“Fern-crushing”—Drainage of Swamps—Burning off withered growths and the Sowing of Grass and other Pasture Seeds—Thistles on Newly cleared Land—Fencing.

Live-Stock Industry.—Sheep—the Merino, Longwools (Lincoln, English and Border Leicesters, Romney or Kent sheep)—Crosses as Frozen-meat Producers—The Wool Trade.

Horses.—Breeding and Management—Their value as army remounts in India and South Africa.

Cattle.—British Breeds imported into the Colonies—Short-horn, Polled Angus, Hereford, Devon, Kerry, and Ayrshire, etc.—Kiama Milking Breed.

Dairying.—Rapid Development in the Colonies—Export of Butter and Cheese—Encouragement given and control exercised by Government over Exports—Cold Storage.

Agricultural Colleges.—At Christchurch, Roseworthy, Dookie, Longnong, and Hawkesbury—Systems of Management—Successful results.

The Smaller Crown Colonies.

Main Points of Interest in.—West India Islands, British Guiana, the Straits Settlements, Uganda, and other African Continental Possessions and Islands—Islands in the South Atlantic and Pacific Ocean.

Miscellaneous.—Relations of the Agriculture of the Colonies and India to that of the Mother Country—Exports of Agricultural Produce, etc., from the Colonies and India, with special reference to Earth Phosphates, Bones, and other Manures, Frozen Meat, Cotton, Grain (including Wheat), Tea and Coffee, Sugar, Fresh Fruits, Spices, etc.

Session 1920-21, 20 Lectures.

India and Ceylon.

Introduction.—General view of agriculture of India, including the main features of the Presidencies and other great political divisions—Bombay, Madras, Central and North-West Provinces, Punjab, Bengal, Assam, Burmah, and Ceylon—with special reference to geology, soil, chief products, irrigation, climate, peoples, and famines.

Tillage Implements.—Indian ploughs, native harrows, hoes, seed-drills, and hand implements. European implements.

Cultivation and Crops.—Rotations and mixtures. Tillage. Seed and sowing. Harvesting and preparation for market. Diseases and injuries. Classification of crops into Cereals, Pulses, Oil Seeds, Fibre, Fodder and miscellaneous crops. Grasses of India and their cultivation—Grass—Cutting—Hay-making—Silage.

Irrigation.—Land and other conditions suitable and unsuitable for Irrigation. Advantages of Canal, Well, and Tank (Lake, etc.) irrigation. Quantity of water necessary. Water lifting appliances.

Manures.—Village refuse, cattle manure (partly used for fuel), ashes, bones, fish manures, saltpetre, green manure.

Live Stock.—Characteristics of Indian cattle—Description of

the numerous breeds—value as working and milch cattle. Buffaloes—their general characteristics and special milking qualities. Horses and Mules. Goats and Sheep. Common diseases.

Egypt.

Introduction.—Physical features—soil, climate, population. The fellahin or cultivating class.

Irrigation.—The rise and overflow of the Nile—The ancient basin system of Upper Egypt—The Indian canal system introduced into Lower Egypt—Drainage—Washing salt land.

Manure.—Pigeons' Dung—Sabakh (crude saltpetre).

Chief Crops.—Divided into Winter, Summer, and Autumn Crops. Special reference to Cotton, Sugar-cane, Barsim (Clover), Wheat, Barley, Maize—Rotations and methods of cultivation.

South Africa.

Political Divisions.—Cape Colony, Natal, the Transvaal, Orange River Colony, Rhodesia; their geological, orographical, and land surface features.

Population.—British, Dutch, other white nationalities, black races, labour and wages.

Cultivation.—Rotations—Manures—Field Crops—Possible development by means of irrigation—Good and bad methods of irrigation.

Viticulture and Fruit-growing.—Production and exportation of Grapes, Oranges, and various tropical and semi-tropical fruits—The Wine Industry.

Live Stock.—The Wild Game—Cattle—Horses and Mules—Sheep and Goats—Ostriches, breeding and management—Dairying—Diseases, including Horse-sickness, Anthrax, Rinder-pest, Redwater (Texas Fever), Scab in Sheep and Goats—Internal Parasites.

AGRICULTURAL CHEMISTRY.

(COLLEGE OF AGRICULTURE.)

ALEXANDER LAUDER, D.Sc., *Lecturer.*

1. *Plants.*—Composition of plants—essential constituents of plant food—sources of plant food—specific functions of the various constituents. The more important proximate constituents of

plants—proteins and carbohydrates, fats and oils, amides—their composition and properties. Enzymes and their action.

2. *Soils*.—Origin and formation. Constitution of the soil—mineral matter—calcium carbonate and calcium phosphate—soil water—organic matter. Carbon and nitrogen cycles in the soil—the micro-organisms of the soil—effects of partial sterilisation. Composition of drainage waters—lysimetry—absorption of salts by the soil. Soil analysis and its interpretation.

3. *Manures*.—Their classification, composition, and characteristics—specific action and suitability for different soils and crops—economic use, and the principles regulating their application—methods of conducting manurial experiments—experimental error of field experiments—analysis and investigation of manures—valuation of manures, and of unexhausted fertility.

4. *Crops*.—Their composition and classification—fodder crops, their relative value as food—their nutritive value, preservation, and digestibility—theory of rotations—crop residues and their relation to the fertility of the soil.

5. *Animal Nutrition*.—Energy requirements of animal for maintenance, growth, and repair—composition of feeding stuffs—digestion, absorption, and assimilation—general functions of foods—maintenance and production rations—"availability" of feeding stuffs—energy used in digestion—specific functions of the various constituents. Valuation of feeding stuffs—manurial value—protein ratio—starch equivalents—rations for different classes of stock.

6. *Dairy Produce*.—Production of milk—composition—factors which affect the variation in composition—effect of feeding on yield and composition. Sources of contamination—preventive measures. Methods adopted for the preservation of milk. Analysis of milk. The more important milk products.

7. *Miscellaneous Chemical Substances used in Agriculture*.—Disinfectants—sheep dips—preservatives, etc.

Practical Course.

Methods of soil sampling; the mechanical methods of soil analysis; qualitative examination of soils; experiments illustrating the properties of clay, sand, calcium carbonate, and humus.

Qualitative composition of plants.

Soils.—Estimation of nitrogen in a soil ; determination of the forms in which nitrogen is present. Estimation of the available phosphates. Absorption of salts.

Manures.—Examination and analysis of the following : nitrate of soda ; nitrate of lime ; sulphate of ammonia ; "calcium cyanamide" ; superphosphate ; basic slag ; bone manures ; compound manures.

Feeding - Stuffs.—Examination and analysis of the more important feeding-stuffs.

Milk and Dairy Produce.—Methods of examination and analysis. Examples of enzyme action.

GEOLOGY.

PROFESSOR JEHU.

For Synopsis of Lectures, see Course C, under PURE SCIENCE.

VETERINARY HYGIENE.

The Agricultural College Course.

ENTOMOLOGY IN RELATION TO AGRICULTURE AND HORTICULTURE.

The Course extends over the Autumn and Spring Terms.

R. STEWART MACDOUGALL, M.A., D.Sc., *Steven Lecturer.*

Lecture Course.

The exact position of Insects in the Animal Kingdom. Characters which serve to mark out Insects from related Classes of Animals.

General Insect Structure :—

(a) External Anatomy : head, antennæ, mouth-parts, eyes ; thorax, legs, wings ; abdomen, and its appendages.

(b) Internal Anatomy : musculature, nervous system and sense organs, alimentary canal, circulatory system, reproductive system.

Development of Insects. Metamorphosis, with the significance of the various stages. Classification of Insects. Review of the various Orders of Insects. Insect larvæ, their varying forms as a help in determination. Insects in relation to man and other animals. Insects in relation to plants.

Inter-relations of Insects :—

Circumstances favouring insect increase. Predisposition of host ; climatic influences. The general principles that tend to discourage insect attack. Insect-eating birds and mammals. Plant parasites. The so-called useful Insects, predaceous and parasitic. Extent and limits of parasitism.

Insecticides : the composition, properties and mode of application of the more important insecticides. Mechanical appliances. Fumigation. The inter-relationship between Economic Entomology and Systematic Botany.

Life history, with measures of prevention and remedy, of Insects affecting the following Agricultural and Fruit Crops :—

Gramineæ : wheat, barley, oat, rye ; the various grasses ; stored grain.

Liliaceæ : asparagus, onion, leek, shallot.

Chenopodiaceæ : beet and mangold, spinach.

Polygonaceæ : buckwheat.

Urticifloræ : hop, hemp.

Compositæ : lettuce.

Solanaceæ : potato, tomato.

Leguminosæ : bean, pea, clover, vetch, lucerne, medick, whin.

Umbelliferæ : carrot, celery, parsley, parsnip.

Cucurbitaceæ : cucumber.

Cruciferae : cabbage, cauliflower, kale, brussels-sprouts, turnip, swede, kohlrabi, radish, mustard, rape, cress.

Corylaceæ : nut.

Rosaceæ : apple, pear, medlar, quince, cherry, plum, raspberry, blackberry, rose.

Ribesciaceæ : currant, gooseberry.

Insects injurious to Stock : horse, ox, sheep, pig, dog, deer, poultry.

Arthropods, other than Insects, of importance in Agriculture :—

Myriapoda : Centipedes and Millipedes. Arachnida : spiders, gall mites, harvest mites, mange mites, ticks.

Practical Class.

Comparison of different types of Arthropods: shrimp, centipede, insect, spider, tick, gall-mite.

External Anatomy: Examination of an adult of the various Insect Orders. Comparison of mouth-parts.

Internal Anatomy of typical forms.

The Orders of Insects: the leading Families, Genera, and Species of insects of importance in Agriculture and Horticulture.

The various kinds of larvæ and pupæ.

The making of a collection: outfit, methods of catching, killing, preparation, preservation.

The various Insecticides: poisons, contact insecticides, repellents, fumigants. Composition of insecticides. Spray machinery and accessories.

ECONOMIC SCIENCE AS APPLIED TO AGRICULTURE.

PROFESSOR NICHOLSON.

Lectures up to Christmas in Class of Political Economy (see under FACULTY OF ARTS), and Special Tutorial instruction—Taylor's *Agricultural Economics*; Nicholson's *Rents, Wages, and Profits in Agriculture*.

FORESTRY.

The Introductory Course. (See page 398.)

EXPERIMENTAL PHYSICS.

PROFESSOR BARKLA.

A full Laboratory Course of 100 hours in the Junior Practical Physics Class. See under FACULTY OF ARTS.

ENGINEERING.

Professor Stanfield's Course in the Heriot-Watt College.

ENGINEERING FIELD WORK.

PROFESSOR HUDSON BEARE.

See Summer Term Course, under GRADUATION IN ENGINEERING.

LAW OF LANDLORD AND TENANT.*Lecturer.*

The Course is generally given in alternate sessions, and is due in 1919-20.

A Course of ten lectures on this subject is given during the Winter Session, beginning, on a date to be fixed, in January, at 4 P.M., or such other hour as may be found to be most convenient to students. The lectures deal with The Relation of Landlord and Tenant, Leases, The Agricultural Holdings (Scotland) Act, 1908, The Small Landholders (Scotland) Act, 1911, The Diseases of Animals Act, 1894, etc. An examination is held at the end of the Course.

DEPARTMENT OF FORESTRY.**ZOOLOGY.**

PROFESSOR EWART and PROFESSOR ASHWORTH.

The Course prescribed for the First Examination in PURE SCIENCE (see p. 349).

BOTANY.

PROFESSOR BALFOUR and LECTURERS.

The Course prescribed for the First Examination in PURE SCIENCE (see p. 351).

NATURAL PHILOSOPHY.

PROFESSOR BARKLA and LECTURERS.

For Lecture and Laboratory Courses, see under FACULTY OF ARTS.

The Qualifying Course in the Natural Philosophy Class for

students of Forestry consists of the ordinary class, together with a Laboratory Course of fifty hours.

CHEMISTRY, including ELEMENTARY ORGANIC CHEMISTRY.

PROFESSOR WALKER and LECTURERS.

For Classes, see under PURE SCIENCE, First Year's Lecture and Laboratory Courses.

FORESTRY.

E. P. STEBBING, *Head of Department*; assisted by J. LYFORD-PIKE, M.A., B.Sc., *Lecturer*; D. C. FERGUSON, B.Sc., *Assistant*.

NOTE.—Prior to attendance upon the Intermediate and Advanced Courses in Forestry, an Introductory Course must be attended, as follows:—

Introductory Course.

The Class meets from 10 to 11 daily throughout the Autumn and Spring Terms.

Elementary principles—Woods in relation to soil, climate, aspect, altitude.

Brief description of European commercial species of trees. Pure and mixed woods.

Nursery work—Permanent and temporary nursery, site, fencing, preparation of soil, seed, sowing, seed beds, transplanting, silvicultural systems, regeneration of woods of different species.

Tending and care of young plantations. Underplanting, shelter to young crops, thinning, etc.

Silviculture treatment of Commercial Hardwoods and Conifers.

Utility of Forests to man—direct and indirect. Forestry and Small Holdings, Village and Communal Forests.

Shelter belts and wind breaks, hedge-row trees. Protection of shelter belts and agricultural plantations from man, insects, fungi, forest fire, wind, etc. Grazing in woods.

Simple Mensuration and Valuation as applied to Agricultural plantations. Felling and conversion of trees in Agricultural plantations, transport, storage, and uses. Minor forest produce useful in Agriculture.

Intermediate Forestry Course.

A Course of one hundred lectures, with practical work.

A ten days' practical Course in woods at the end of the Spring Term, followed by a Vacation Course.

The Class will meet five days a week during the Spring Term, at 11 A.M. and five days a week at 9 A.M. during the Summer Term.

(1) SILVICULTURE.

E. P. STEBBING, *Lecturer.*

Elementary principles. Locality in relation to forest vegetation. Silvicultural notes on forest trees. Character and composition of woods. The silvicultural systems.

Formation and regeneration of woods: Preliminary works, direct sowing, planting, natural regeneration by seed and by coppice shoots.

Tending of woods: In early youth and later. Removal of undesirable trees, pruning, thinning.

Practical work in a forest garden, excursions in term and, for degree students, in the vacations (to France when possible).

Textbook.—Sir Wm. Schlich's *Manual of Forestry*, vol. ii.

(2) FOREST MENSURATION.

J. LYFORD-PIKE, M.A., B.Sc., *Lecturer.*

Instruments used in forest mensuration. Measurement of felled and standing trees, and of whole woods. Determination of the age and increment of trees and woods. Measurements practically demonstrated.

(3) FOREST PROTECTION.

E. P. STEBBING, *Lecturer*; assisted by D. C. FERGUSON, B.Sc.

Protection against animals (deer, rodents, birds, insects). Plants (weeds, fungi). Atmospheric influences (frost, insolation, wind, snow, rime). Non-atmospheric natural phenomena (shifting sand, fire). Diseases (red-rot, white-rot, stagheadedness, abnormal needle-shedding). Effect of acid fumes from furnaces.

PRACTICAL COURSE.

Excursions to the Forest Garden and elsewhere on Saturdays during the session. Ten days' practical work in woods at the end of the session.

Advanced Forestry Course.

A Course of one hundred lectures with practical work in British or French woods, as detailed below. The Class will meet five days a week during the session at such hours between 9 A.M. and 1 P.M. (Tuesday 12 noon) as may be arranged.

(4) FOREST ADMINISTRATION.

E. P. STEBBING, *Lecturer.*

Utility of forests, direct and indirect. The State in relation to forestry. Protection forests. State forests. Corporation forests. Private forests. Forestry in Great Britain and Ireland.

Textbook.—Sir Wm. Schlich's *Manual of Forestry*, vol. i.; E. P. Stebbing's *British Forestry*.

(5) FOREST VALUATION.

J. LYFORD-PIKE, M.A., B.Sc., *Lecturer.*

Valuation of forest soil, growing stock, and of whole woods. Determination of rental of woods. Financial results of forestry.

(6) FOREST MANAGEMENT.

J. LYFORD-PIKE, M.A., B.Sc., *Lecturer.*

Increment. Rotation. Normal Age Classes. Growing stock. Yield.

(7) FOREST WORKING PLANS.

E. P. STEBBING, *Lecturer.*

Collection of Statistics. Allotment of Area. Method of Treatment. Regulation of Yield. Control Forms. Renewal of Plans.

Textbook (for (4), (5), (6), and (7)).—Sir Wm. Schlich's *Manual of Forestry*, vol. iii.

(8) FOREST UTILISATION.

J. LYFORD-PIKE, M.A., B.Sc., *Lecturer.*

Technical properties and qualities of wood. Industrial uses of wood. Felling. Conversion and seasoning of timber. Measurement of timber. Transport by land and by water. Timber depots. Sales. Harvesting and treatment of bark and seeds.

Forest industries : Antiseptic treatment of timber, manufacture of charcoal. Wood Pulp, etc.

Textbook.—Sir Wm. Schlich's *Manual of Forestry*, vol. v.

PRACTICAL COURSES.

In addition to Saturday excursions and the preparation of a simple working plan, undertaken whilst the theoretical Courses are being given, the practical Courses of the advanced work are four in number. They include a period of four weeks' practical work under a forester on a Scottish estate. The description of a compartment of a wood; and the careful measurement of Sample Plots. A six weeks' Course of thinning and other work in the woods, and work in an Estate's Wood's Office in Scotland, or on the Continent, as may be determined for individual students. Two and a half to three months occupied in the preparation of a working plan and other work in French or British woods.

The details are as follows :—

(1) FIRST PRACTICAL COURSE.

Four weeks in Easter vacation following the Course in Silviculture. Work in nursery; planting; felling; sawmill and antiseptic treatment of wood. The Course will be carried out under a Forester on a Scottish estate.

(2) SECOND PRACTICAL COURSE.

Description of a compartment—undertaken in the following summer session. A wood will be surveyed with the plane table; the general characters of the soil, aspect, etc., described; the trees measured and their volume ascertained, and proposals for future treatment discussed.

(3) THIRD (ADVANCED) PRACTICAL COURSE.

A period of six weeks in the summer vacation, either in British or French woods, as may be determined. The theory and practice of thinning woods, and other practical work. Study of office administration and accounts, and the general working of a forest district.

(4) FOURTH (ADVANCED) PRACTICAL COURSE.

Two and a half to three months, usually in French woods—April to June, following the Advanced Theoretical Course. Preparation of a detailed working plan and examination of scientifically managed woods.

During the Advanced Theoretical Course excursions will be undertaken on Saturdays to study the commercial aspects of Forestry — paper mills, saw mills, timber depots, furniture making, etc.

The stem analysis of a tree and the preparation of a simple working plan will also be undertaken. The careful measurement of such Sample Plots as are prescribed from time to time.

Students will be required to keep diaries of all the practical work they are engaged upon, and to send in such detailed reports as may be prescribed by the Head of the Department.

Students will graduate in July after the Continental Practical Course.

FOREST BOTANY.

W. G. CRAIB, M.A., *Lecturer.*

The Class meets on Monday, Wednesday, and Friday, from 2 to 5: seventy-five meetings, over two Winter Terms, with excursions.

The vegetation and flora of forest, their relation to edaphic and atmospheric conditions.

The Course deals with the characteristic organographical (including anatomical) and physiological features of forest trees, native and cultivated, in Great Britain, both in their seedling and their mature stage; the systematic position of these trees.

The structure of the more important timbers.

INDIAN FOREST TREES.

W. G. CRAIB, M.A., *Lecturer.*

The Class meets in the Summer Term on Tuesdays, Wednesdays, and Thursdays, from 8 A.M. to 9.30 A.M.; thirty meetings of the class.

The Course deals with the systematic position, distribution, and timber value of the trees of India.

FOREST MYCOLOGY.

MALCOLM WILSON, D.Sc., *Lecturer.*

The Class meets from 2.30 P.M. to 5 P.M. on Tuesdays and Thursdays during the Autumn Term, and on Thursdays during the Spring Term; the Course consists of thirty lectures and practical work.

The Course deals with the principal families of the Fungi, Mycetoza, and Bacteria which cause disease in plants.

Consideration of parasitism ; specialisation of species.

Conditions encouraging disease ; predisposition ; immunity ; production of immune varieties.

Description of the more important tree diseases ; methods of treatment and prevention.

Diseases and rotting of timber.

FOREST CHEMISTRY.

(COLLEGE OF AGRICULTURE.)

ALEXANDER LAUDER, D.Sc., *Lecturer.*

1. *Plants.*—Composition of plants—essential constituents of plant food—sources of plant food—specific functions of the various constituents. The more important proximate constituents of plants—proteins and carbohydrates, fats and oils, amides—their composition and properties. Enzymes and their action.

2. *Soils.*—Origin and formation. Constitution of the soil—mineral matter—calcium carbonate and calcium phosphate—soil water—organic matter. Carbon and nitrogen cycles in the soil—the micro-organisms of the soil—effects of partial sterilisation. Composition of drainage waters—lysimetry—absorption of salts by the soil. Soil analysis and its interpretation.

3. *Manures.*—Their classification, composition, and characteristics—specific action and suitability for different soils and crops—economic use, and the principles regulating their application—methods of conducting manurial experiments—experimental error of field experiments—analysis and investigation of manures—valuation of manures, and of unexhausted fertility.

4. *Forest Soils.*—Comparison with soils under arable cultivation or pasture ; water content—conservation of soil moisture—mulches—leaf mould—drainage—sources of loss and gain of plant food—accumulation of nitrogen in forest soils.

5. *Smoke Pollution.*—Its effect on trees.

6. *Products obtained from Wood.*—Wood distillation—wood pulp (chemical and mechanical methods of preparation)—turpentine and resins—rubber products from bark.

Methods employed in the preservation of timber.

Practical Course.

Examination of soils—separation and examination of humus—mechanical analysis of soils—absorption of salts by the soil.

Proximate constituents of wood—examination of the ash of wood—turpentine and resins. The products of wood distillation. Properties of cellulose—examination of chemical and mechanical wood pulps. Examination of substances used in the preservation of timber.

GEOLOGY.

PROFESSOR JEHU.

See Course C, under PURE SCIENCE.

FOREST ZOOLOGY.

DR R. STEWART MACDOUGALL, M.A., *Lecturer.*

The Course extends over the Autumn and Spring Terms.

Lecture Course.

The Vertebrate Classes of importance in Forestry :—

Aves.—Finches, the Tree-Creeper, Nuthatch, Woodpeckers, Pigeons, Game-Birds, Owls, Hawks.

The Mammalian Orders with species of Forest importance :—
Voles, Mice, Rats, Squirrel, Dormouse, Rabbit, Hare, Deer.

Invertebrate Classes.—Worms, Molluscs, Arthropods.

Insecta.—General insect structure. The detailed anatomy of a typical insect. Relation of insect structure to methods of extermination. Development and Metamorphosis of Insects. Classification of Insects with the chief characters of each Order.

The general principles which tend to increase or to discourage insect attack :—Methods of cultivation of crop ; pure or mixed forest ; felling and planting. Insectivorous birds and mammals, parasitic insects, fungi parasitic on insects ; fumigation of nursery stock ; insecticides.

The general relations of insects and plants. Forest insects studied in detail under the following heads :—

- (1) Description of insects in various stages, for recognition.
- (2) Nature and extent of damage, with recognition of the pest by its mode of damage, where possible.
- (3) Life-history.
- (4) Methods of prevention against attack.
- (5) Remedies in case of attack.
- (6) Measures of extermination.

Insects as harmful physiologically to growing crops, and technically to felled and stored timber.

Arachnida.—Spiders and Gall Mites.

Myriapoda.—Centipedes and Millipedes.

Practical Course.

Comparison of different types of Arthropods.

External structure of imago in the different insect Orders. Internal anatomy of typical adults and larvæ.

The Orders of Insects: the leading Families, Genera, and Species of insects of importance in Forestry. The various kinds of larvæ and pupæ.

The making of a collection: outfit, methods of catching, killing, preparation, preservation.

Methods of staining and mounting for the microscope. Paraffin—embedding methods.

The various Insecticides: poisons, contact insecticides, repellents, fumigants. Composition of insecticides. Spray machinery and accessories.

FOREST ENGINEERING.

(1) Elementary Engineering.

WILLIAM GORDON, B.Sc., A.M.I.Mech.E., *Lecturer.*

Autumn Term.

Tuesday, Wednesday, and Thursday, 11-1.

(a) A Course of twenty lectures dealing with the following subjects :—

Use, characteristics, and manufacture of materials—bricks, stone, lime, mortar, cement, concrete, ferro-concrete, iron, and

steel ; forest building construction ; roofs of various types ; designs for small bridges, culverts, etc. ; road construction and drainage ; sawmills, timber slides, and forest tramways ; wire-rope bridges and tramways ; gauging of streams and rivers ; construction of dams, weirs, and water channels ; wells.

(b) Practical instruction in Geometrical and Engineering Drawing will be given in the following subjects :—

Construction of Scales, and Calculation of Areas ; Elementary Building Construction ; Making of Detailed Drawings from Figured Sketches ; Graphic Determination of Stresses in Structures ; Design of Simple Roofs and Bridges in Timber and Steel.

(2) Surveying.

PROFESSOR HUDSON BEARE.

This is the ordinary Course for Engineering Field Work, which meets in summer. See Summer Term Course under GRADUATION IN ENGINEERING.

DEPARTMENT OF VETERINARY SCIENCE.

PRACTICAL CHEMISTRY.

(ROYAL (DICK) VETERINARY COLLEGE.)

PROFESSOR GEMMELL.

Determination of Solubility of various Salts.

Separation of Soluble from Insoluble Solids.

Preparation of simple Salts and purification by crystallisation.

Preparation and Properties of Elementary and Compound Gases.

Properties of common Acids and Alkalis.

Action of Heat on certain Elements and Compounds.

Qualitative Tests.—Dry way Tests ; Metallic Radicals ; Acid Radicals.

Simple Volumetric Analysis, Acidimetry and Alkalinity.

Textbook.—Dr A. C. Cumming's *Practical Chemistry for Medical Students.*

Additional Work for First B.Sc. Examination in Veterinary Science.

Preparation of Metallic and Non-metallic substances, and their purification by precipitation, crystallisation, and distillation.

Determination of the Equivalents of Copper, Tin, Zinc, and Magnesium, by methods of Oxidation and Reduction.

Use of Balance.

Volumetric Analysis.

Further examples in Acidimetry and Alkalinity, with various indicators.

Titration of Chlorine with Silver Nitrate.

Use of Permanganate and Thiosulphate solutions.

Standardisation of Permanganate by Oxalic Acid.

Estimation of Iron by Permanganate.

Tests for Carbon, Hydrogen, Nitrogen, Sulphur, and Halogens in organic compounds.

Determination of Melting and Boiling Points.

Tests and reactions for Ethyl Alcohol, Urea, Cane Sugar, Phenol, Acetic, Oxalic, Hydrocyanic, Tartaric, Citric, Salicylic Acids.

PHYSICS.

PROFESSOR BARKLA and DR CARSE.

The Course includes :—

1. Matter and Energy—weight, force, pressure, motion, flow, etc. ; elasticity, sound.
2. Heat—Thermometry, Specific and Latent Heats, Humidity, Efficiency.
3. Light and Radiation—reflexion, refraction, polarisation ; simple optical instruments.
4. Electricity and Magnetism—production and effects of electric currents ; Ohm's Law ; Faraday's Laws of electrolysis and induction ; instruments.

The Course includes in the Fifty Meetings of the Class a certain number of meetings for Practical Physics, in which the Students themselves perform important experimental measurements.

BOTANY.

MALCOLM WILSON, D.Sc., *Lecturer.*

The Course, which is given in the Summer Term on Wednesdays, at 2.30, is entirely practical, and held in the Laboratory. It deals with Mycology, and other matters which have a bearing upon Veterinary Science.

ZOOLOGY.

A Summer Course may be given, if required, on the Zoology of Domestic Animals. The Course deals with the Origin and History of the more important of these, including Horses, Sheep, Oxen, Dogs, Fowls, etc.; and with the recent and extinct wild species from which the animals living under domestication are descended.

ANATOMY OF DOMESTICATED ANIMALS.

(ROYAL (DICK) VETERINARY COLLEGE.)

O. CHARNOCK BRADLEY, M.D., D.Sc., *Lecturer.*

W. M. MITCHELL, *Assistant.*

Lectures on Anatomy.

First Year, at 11 A.M. on Tuesdays and Thursdays.

The lectures for students of the first year consist of an introduction to the subject of Anatomy, and a detailed consideration of the bones and joints of the various domesticated animals. Students are expected to avail themselves of the opportunities afforded by the Bone Room to make themselves practically acquainted with the subjects treated of in the course of lectures

Second Year, at 12 noon on Mondays, Wednesdays,
and Fridays.

Systematic lectures are given on the structure of the domesticated animals, particular attention being directed to

the horse and the dog. The development and microscopic structure of the various organs is also considered in this Course.

The lectures are illustrated by dissections, models, diagrams, etc., and in both the First and Second Year are supplemented by tutorial demonstrations.

Textbook.—Sisson's *Veterinary Anatomy*.

Practical Anatomy.

First Year, from 2 P.M. to 4 P.M. on Mondays, Thursdays, and Fridays.

Students in the first year of their curriculum dissect the dog, in the Spring Term of the Session.

Second Year, from 9 A.M. to 11 A.M.

During their second year, students engage in dissection every week-day (except Saturdays) throughout the Session, and devote especial attention to the anatomy of the horse.

Textbooks.—M'Fadyean's *Anatomy of the Horse*; Bradley's *Dissection of the Dog*.

HISTOLOGY.

(ROYAL (DICK) VETERINARY COLLEGE.)

O. CHARNOCK BRADLEY, M.D., D.Sc., *Lecturer*.

W. M. MITCHELL, *Assistant*.

At 2 P.M. on Tuesdays and Thursdays, and at 9.30 A.M. on Saturdays.

The Course is entirely practical, and consists of class-work and demonstrations in which the microscopic structure of the tissues and organs of the bodies of the domesticated animals is examined in detail. The student is also taught the commoner methods by which microscopic preparations are made.

The Course extends through all three terms of the Session.

Textbook.—Schäfer's *Essentials of Histology*.

**EXPERIMENTAL PHYSIOLOGY AND CHEMICAL
PHYSIOLOGY.**

Veterinary Students take the Courses in these subjects, which are set forth in the Syllabus of the FACULTY OF MEDICINE. See page 559.

PATHOLOGICAL BACTERIOLOGY.

PROFESSOR RITCHIE.

Veterinary Students take the Advanced Course in Bacteriology (see page 563), and do additional work specially related to Veterinary Science.

PROTOZOOLOGY AND ENTOMOLOGY.

PROFESSOR ASHWORTH.

Veterinary Students attend the Course for the Diploma in Tropical Medicine and Hygiene; their attention being specially devoted to those sections of the work which are of importance to Veterinary Surgeons.

SANITARY SCIENCE AND VETERINARY HYGIENE.

PROFESSOR HUNTER STEWART and J. BUCHANAN YOUNG,
M.B., D.Sc. (P.H.)

The Course will consist of Lectures and Practical Work, and will be held in the Spring Term. The following subjects will be embraced in the Course:—

Water Supply:

Sources—filtration, storage. Causes of contamination. Chemical and bacteriological examination of drinking water.

Stables and Cowsheds:

Their sanitary requirements as regards structure Cleanliness.
Ventilation and Warming—practical examination of the atmosphere.

Cow's Milk :

Precautions necessary in its production, cooling, and storing.
 Characters of milk. Adulterations. Chemical and
 bacteriological examination of milk.

GENETICS.

* * * *Lecturer.*

Mondays, Wednesdays, and Fridays at 4 P.M., in the Spring Term.

POST-GRADUATE COURSES IN THE FACULTY OF SCIENCE.

Graduates of this or other Universities who contemplate Post-Graduate Research should communicate with the Dean of the Faculty of Science.

Pure Mathematics.

See under FACULTY OF ARTS, p. 230.

Applied Mathematics.

See under FACULTY OF ARTS, p. 231.

Natural Philosophy.

See under FACULTY OF ARTS. p. 231.

Astronomy,

The Department of Astronomy is worked in connection with the Royal Observatory, Edinburgh. The Professor of Astronomy is Astronomer Royal for Scotland, and the Observatory is maintained by the Government. It is equipped with an 8-in. transit circle, a 24-in. reflector, a 15-in. equatorial, a solar spectroscope, with 21-ft. concave grating by Rowland, besides a great variety of minor instruments and accessory apparatus. It has, in addition, a fine library, exceptionally rich in ancient and historical books. The Professor is prepared to accord to qualified and approved students full opportunities for studies and researches which are compatible with the regular activities of the Observatory. Time, and all problems related to the rotation of the earth, stellar

magnitude, certain branches of solar spectroscopy, historical studies, researches in astrodynamics, are examples of the lines that can be followed profitably.

Chemistry.

In the Chemistry Department of the University there is a staff of two Professors, six Lecturers, six Assistants, and demonstrators, and the laboratories are well equipped with apparatus for the prosecution of research work.

During the year 1919-20, it is unfortunately impossible to afford any facilities for advanced or research work to graduates, owing to the lack of laboratory accommodation, applications having already been received for more places than the laboratories can supply.

Before the outbreak of war, plans had been prepared for a new Chemical Institute, but the construction of the plans could not be undertaken during the continuance of hostilities. A beginning will be made with the erection of a new Institute at the earliest possible moment, but it is not anticipated that the present congestion will be relieved until the Summer of 1921.

Zoology.

The existing courses for advanced study in the Departments are :—

1. The Zoology of Domestic Animals. Professor J. Cossar Ewart. This course, which is given in the Summer Term, has been planned to meet the needs of students in the Departments of Agriculture and Veterinary Science.
2. Genetics and Animal Breeding, a course of about 25 lectures, at a time to be arranged.
3. Cytology and General Embryology. Dr Beard. 40 lectures and 40 demonstrations, each of 1 hour. Autumn and Spring Terms.
4. Morphology of the Invertebrata. Professor Ashworth. About 20 lectures, and 50 hours' practical work. Summer Term.
5. Medical Entomology and Protozoology. Professor Ashworth. About 32 meetings of two hours' each. Autumn Term. This course has been planned especially for medical graduates, but is open to others who are qualified to take up the work of the course.

Facilities for research are at present somewhat limited, owing to crowding of the Departments with undergraduates who have returned from service; but it is hoped that space will soon be available, in which case arrangements for research in connection with most of the above courses can be made.

Botany.

Students of Botany in Edinburgh have exceptional advantages. In addition to the Teachers and equipment provided by the University, all the resources, both of Staff and of equipment, of the Royal Botanic Garden, which is maintained by the Government, and in which all the botanical work of the University is carried on, are available for their education and training. The Professor of Botany is Regius Keeper of the Garden. This means that facilities are offered for study of Botany, theoretical and practical, not merely from the academic standpoint, but from that of its applications also.

The University teaching includes the following Courses :—

1. Elementary, Intermediate, and Advanced Botany, including Œcology, Economic Botany, Geographical Botany, and Palæobotany..
2. Plant Physiology.
3. Forest Botany, and Indian Forest Trees and Shrubs.
4. Mycology, Bacteriology, and Diseases of Plants.

Practical work in all the Courses is carried on, so far as possible, by the Professor and special lecturers, who draw freely for illustration upon the collection of living plants in the Garden, upon the material preserved in the Museum, and upon the large herbarium of dried plants.

The facilities provided by the Garden have made it for long a training centre for men and women taking up Horticulture and Forestry as a profession, and Courses of Instruction for them are carried on by the Staff of the Garden. University Students may attend these Courses. Special instruction in horticultural methods and in nursery work for Forestry is also provided.

The Library of the Garden is open to all Students.

The Garden and Laboratories are open to any qualified investigator who may wish to undertake original research work. Anyone who desires to undertake such work should communicate with Professor Bayley Balfour.

Geology.

The following courses in Geology are given during each session :—

1. A general course on Geology and Mineralogy, extending over three terms. In the Autumn and Spring Terms the class meets three

times a week, at 4 P.M., and in the Summer Term the class meets only twice a week, the work during this term being devoted to Palæontology and Historical Geology. Field demonstrations are arranged in connection with this course.

2. A class on Practical Mineralogy and Geology, extending over three terms. During the Autumn and Spring Terms the class meets from 2 to 4 three days a week, and during the Summer Term daily from 1 to 2.
3. Class of Structural and Field Geology. This course, which is specially arranged for students preparing for Civil Engineering, Mining Engineering, Agriculture, Forestry, etc., meets during the Autumn and Spring Terms on three days a week. Field demonstrations are arranged in connection with this course.
4. Petrology. Lectures and practical work during the Summer Term only, on three days a week.
5. Palæontology. Lectures and practical work daily during the Autumn Term.
6. Fossil Botany. Lectures and demonstrations twice a week during the Spring Term.

The existing facilities for advanced study and research are at present hampered by the lack of accommodation owing to the crowded state of the Department brought about by the return of so many students from war service, but it will be possible to find accommodation for a few research students working in the laboratory or in the field under the guidance of the members of the teaching staff.

Engineering.

Two degrees are given in Engineering—the B.Sc. and the D.Sc. The B.Sc. Degree may be taken in the Departments of Civil, Mechanical, or Electrical Engineering, and it is hoped very shortly to arrange for a Department in Mining Engineering.

B.SC. DEGREE.

The Course for the B.Sc. Degree extends as a minimum over three academical sessions. There are two sets of examinations—the First Science Examination and the Final Science Examination.

Under the Ordinance controlling the Degree, five full courses, including the necessary courses in Engineering, must be taken at the University of Edinburgh. The remaining courses may be taken at any other recognised University. Recognition of attendance on courses taken at another University does not

carry exemption from any of the Degree examinations at Edinburgh, but it shortens considerably the period of attendance required at Edinburgh. A student obtaining exemption from attendance on the ordinary first year courses, viz., Mathematics, Chemistry, and Natural Philosophy, can obtain the Degree of B.Sc. in Engineering by a residence at Edinburgh of only one year and nine months, provided he enters the University at the opening of the academical year, that is, in the month of October.

D.SC. DEGREE.

Graduates of the University of Edinburgh who have held the Degree of B.Sc. in Engineering for five years may offer themselves for the Degree of D.Sc. Candidates must present a thesis or a published memoir or work. The thesis must be a record of original research undertaken by the candidate, or of important engineering work designed by himself and actually carried out. The Senatus reserves to itself the right to subject a candidate to a written or oral examination as well, if it is thought necessary.

Candidates who hold the B.Sc. in Engineering may, if they prefer, offer themselves for the Degree of D.Sc. in Pure Science, in which case the thesis must be a record of original research undertaken by the candidate.

RESEARCH STUDENTS.

The Engineering Laboratories provide the necessary facilities for research students who desire to undertake original investigations on matters in relation to which engineers still require experimental data. Such post-graduate work qualifies a student for the Degree of Ph.D. Special Honours Lectures, dealing with the higher branches of engineering study, are open to such post-graduate and research students.

Agriculture.

The ordinary Degree of B.Sc. is offered after a three years' course. Before presenting themselves for the Final Examination in Agriculture, students are required to produce a certificate that they have spent at least twelve months in practical work on a farm. At present there is no Honours Degree.

FACILITIES FOR HIGHER STUDY AND RESEARCH.

Facilities for higher work in this Department are at present somewhat limited, and it seems certain that its resources, both as regards accommodation and staff, will be severely taxed during the coming few years by the increasing number of ordinary students. Apart from the Animal Breeding Station, there are no facilities for field work.

The University Breeding Station at Fairsacks is available for work in animal breeding, and a considerable amount of literature on this subject is available in the Agricultural Library. Some guidance in work of this nature can be provided at present. It is hoped that a Research Institute in Animal Breeding, with an adequate staff, will be created shortly. This, with work in the Department, would provide good opportunities for higher work in the subject.

Forestry.

The B.Sc. Degree in Forestry can be obtained after three years' study in the University.

Students of Forestry who intend to qualify as candidates for probationerships in the Indian Forest Service must (1) hold the Degree of B.Sc. in Forestry of the University; (2) have passed a public examination at the University of an Honours standard in some branch of Natural Science. The second requirement is fulfilled when a candidate passes a University examination in some branch of Natural Science embraced in the Degree of Pure Science.

The technical forestry courses are divided into three divisions: the Introductory Course, dealing with Forestry in an elementary manner; the Intermediate Course, dealing with Silviculture, Forest Mensuration, and Forest Protection; and the Advanced Course, dealing with Forest Administration, Forest Valuation, Forest Management, Forest Working Plans, and Forest Utilisation.

While attending the Intermediate Course, students carry out practical work in the Forest Garden, and are taken on excursions on Saturdays. At the conclusion of the course, ten days' practical work in the woods must be undertaken.

In connection with the Advanced Forestry Course, four weeks of practical work under a forester are spent on a Scottish estate;

a six weeks' course, either in woods and in an estate office in Scotland, or on the Continent; and about three months in the preparation of a working plan in French or British woods.

Entomology.

COURSES IN AGRICULTURAL ENTOMOLOGY AND FOREST ZOOLOGY.

These two Courses are taken by students of Agriculture and Forestry respectively for the Final B.Sc. Degree in Agriculture and the Final B.Sc. Degree in Forestry. Students are admitted to these Courses after attendance on a First B.Sc. Course in Zoology.

AGRICULTURAL ENTOMOLOGY.

There are two classes held in this Course—a Lecture Course and a Laboratory Course.

The Lecture Course is partly Systematic, and also to a large extent economic, the species discussed being the characteristic enemies of our Agricultural and Horticultural Crops, including fruit trees; and the enemies of Stock, including the mange mites and ticks.

In specific cases, preventive and remedial measures are detailed, while this side of the subject receives more general notice under the heading of Natural and Artificial aids in fighting crop enemies—insecticides, predaceous and parasitic insects, insectivorous birds and mammals, parasitic bacteria and fungi.

The chief insect enemies of other countries receive notice, under the headings of Pests scheduled by the Board of Agriculture, and Legislation in relation to exports and imports as possible carriers of pests.

FOREST ZOOLOGY.

The course is divided into lecture work and laboratory work. The applied part of the Course follows the arrangement as given above under Agriculture, but the insects and arachnids treated in detail are those injurious to forest crops and in nurseries.

THE LABORATORY CLASSES.

The work consists of dissection of typical forms; the naked eye and lens examination of typical insects of the different

Orders, in their various stages ; classification and systematic work ; the preparing and mounting of permanent microscopic preparations ; the making of a collection.

RESEARCH LABORATORY.

The theory of lenses and the microscope. Use of binocular dissecting microscope. Drawing with camera lucida. The various methods of killing, fixing, staining, and preparing specimens for the microscope. The microtome. Study of the literature. Original research under supervision.

AIDS TO STUDY AND RESEARCH.

A good and growing collection of insects, specially strong in Coleoptera.

A Museum with a large number of preparations illustrating the insects of Great Britain of economic importance in Agriculture, Horticulture, and Forestry. The Museum is quite a representative one.

A Class and Research Library containing, in addition to the standard books in Entomology of the different parts of the world, a fair representation of Reports, Pamphlets, and "Separates" of original papers in Entomology from all quarters. Such literature is well representative of the various British Dominions and Colonies, and of the United States of America.

GRADUATION IN PURE SCIENCE.

Note.—These Regulations are set forth in Ordinances of H.M. Commissioners and of the University Court.

N.B.—*Paragraphs headed with Roman Numerals are from the Ordinance No. 12 of the Scottish Universities Commissioners, unless otherwise stated.*

I. Two degrees in Science may be conferred by each of the Universities of Scotland, viz., Bachelor of Science (B.Sc.) and Doctor of Science (D.Sc.). These degrees may be given in Pure Science and in Applied Science.

Preliminary Examination.

II. See earlier Section, pages 87-106.

Courses of Instruction.

III. (1) Candidates for the degree of Bachelor of Science must, in the course of not less than three Academical years, attend at least seven courses of instruction, in subjects prescribed for examination under Sections VIII. and IX. of this Ordinance.

(2) Three of these courses must be in subjects prescribed for the First Science Examination under Section VIII.; and four must be in subjects prescribed for the Final Science Examination under Section IX.

IV. (1) Four of the seven courses must be taken in the University in which the degree is conferred.

(2) Three may be taken in other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science: Provided that the fees for attendance at an approved Institution or under a recognised teacher in the town in which the University is situated shall not be less than the fees exigible for the corresponding courses in the University.

UNIVERSITIES AND INSTITUTIONS AT PRESENT RECOGNISED IN TERMS OF THE ABOVE REGULATION AND CORRESPONDING REGULATIONS IN APPLIED SCIENCE.

The Universities of—

St Andrews	Cambridge	Sheffield
Glasgow	Dublin	Liverpool
Aberdeen	Manchester	Leeds
Oxford	Birmingham	

Heriot-Watt College.—Mathematics qualifying for First Science Examination; Mechanics and Physics, as equivalent to one course in Natural Philosophy, qualifying for the first B.Sc. examination in Pure Science, Engineering, and Agriculture; Chemistry and Chemical Laboratory, as qualifying for the first and final B.Sc. examination; Electricity (Pure and Applied), Engineering Lectures and Drawing, Laboratory

Practice (Mechanical or Electrical), as qualifying for the degree of B.Sc. in Engineering. (See pages 374 to 381.)

Royal Technical College, Glasgow.
 University College, London.
 King's College, London.
 Royal Colleges of Science, South Kensington.
 College of Science, Newcastle-on-Tyne.
 University of Bristol.
 University College, Nottingham.
 University College of North Wales, Bangor.
 University College of Wales, Aberystwyth.
 University College of South Wales and Monmouthshire.
 Queen's University of Belfast.
 Queen's College, Cork.
 Queen's College, Galway.
 College of Science, Stephen's Green, Dublin.
 School of Mines, Dublin.
 Royal Agricultural College, Cirencester.
 College of Agriculture, Downton.
 Veterinary Colleges of the United Kingdom.
 M'Gill University, Montreal.
 University of Toronto.
 Queen's University, Kingston, Ontario.
 University of Sydney.
 University of Melbourne.
 University of Adelaide.
 Wellington College, New Zealand.
 University of New Zealand.
 University of Otago.
 Dalhousie University, Halifax, Nova Scotia.
 Natal University College, Pietermaritzburg.
 South African College, Cape Town.
 Stellenbosch College, South Africa.
 Rhodes University College, Grahamstown.
 Madras College of Agriculture (Coimbatore).
 The Universities, and Polytechnic Schools supported and regulated or recognised by the governments of the respective Countries of Europe.
 Colleges affiliated (up to B.A. and B.Sc. Standards) to Universities of India, and Engineering Colleges affiliated to these Universities.

See also General Recognition List, U.S.A., pp. 879-882.

TEACHERS RECOGNISED UNDER THE SAME REGULATION.

Alex. Lauder, D.Sc., Edin., and East of Scot. College of Agriculture
 (Chem. and Pract. Chem., 1st B.Sc. Exam.).
 Malcolm Laurie, D.Sc. (Zoology, 1st B.Sc. Exam.).
 J. Ryland Whitaker, B.A., M.B., Edinburgh (Anatomy).
 T. W. Drinkwater, Ph.D., Edinburgh (Chemistry, 1st B.Sc. Exam.).

W. R. Bower, Huddersfield (Courses in Physics and Electricity, 1st B.Sc. Exam.).

T. W. Woodhead, Ph.D., Huddersfield (Botany, 1st B.Sc. Exam.).

J. Bruce, D.Sc., Huddersfield (Chemistry, 1st B.Sc. Exam.).

W. G. Smith, B.Sc., Ph.D., Edin., and East of Scot. College of Agriculture (Botany for Agriculture and Forestry).

V. All candidates, not matriculated students of a University, availing themselves of the permission to attend lectures at approved Institutions or by recognised teachers in the town in which the University is situated, shall at the commencement of each year of such attendance enrol their names in a book to be kept for that purpose in the University, paying a fee of the same amount as the Matriculation Fee paid by students of the University, and having in respect of such payment a right to the use of the Library of the University.

Boards of Studies, etc.

VI. (1) It shall be the duty of the Senatus to determine from time to time the number of meetings of which a full course in any subject shall consist, and to report its determination to the University Court for its approval.

(2) The Senatus, with the approval of the University Court, may sanction half-courses of not less than half the number of meetings which constitute a full course in the subject; but two half-courses shall be held to be equivalent to a full course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose.

(3) It shall be the duty of the Professor and Lecturer¹ annually at the end of each winter session to submit to the Senatus a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Senatus shall transmit such scheme, with such observations as it may think fit to make thereon, to the University Court for its approval.

(4) It shall be the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Faculty of Science to be hereafter constituted in each University, for its consideration, a syllabus of the subjects and books proposed for the work of their classes during the next Academical Year. The Faculty of Science shall transmit such syllabus, with such observations as it may think fit to make thereon, to the Senatus for its approval.

VII. The provisions of the preceding section shall not apply to approved Institutions or recognised teachers outside the town in which the University is situated; but the University Court shall not grant or continue recognition to any Institutions or teachers unless they shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the Universities of Scotland.

¹ This applies to all extra-mural teachers in Edinburgh whose courses have been recognised.

(Ordinance No. 42.)

II. The Commissioners statute and ordain as follows :—

(1) For the better carrying out of the purposes of Section VI., Sub-sections 1, 2, and 3, of Ordinance No. 12 [General No. 7—Regulation, for Degrees in Science], the Senatus Academicus shall institute a Board or Boards of Studies consisting of Professors in the Faculty of Sciences together with such Professors in other Faculties whose subjects qualify for graduation in Science, and such of the Lecturers in the University appointed under the provisions of Ordinance No. 17 [General No. 10—Regulations as to Assistants and Lecturers] as the Senatus may from time to time select.

(2) The Senatus shall appoint one of the members of such Board or Boards to be Convener thereof.

(3) It shall be the duty of such Board or Boards of Studies to consider the matters specified in the said Section VI., Sub-sections 1 and 2, of the said Ordinance, and to report their opinion on the same to the Faculty of Science for consideration before transmission by the Faculty to the Senatus.

(4) In carrying out the duty imposed upon them by the said Section¹ VI., Sub-section 3, of the said Ordinance, the Professors and Lecturers shall submit the schemes therein mentioned to the Board or Boards of Studies, by whom the same shall be transmitted to the Faculty of Science, who shall submit them to the Senatus Academicus, with such observations as they may think fit to make thereon.

FIRST SCIENCE EXAMINATION.

VIII. 1. There shall be a First Science Examination in the three following subjects—viz.: (1) Mathematics, or Biology (*i.e.*, Zoology and Botany); (2) Natural Philosophy; (3) Chemistry.

2. The examination in all these subjects shall be the same as the examination in these subjects for the ordinary degree of Master of Arts.

3. Candidates may present themselves in any one or more of these subjects at any examination held after they have attended a full course in the subject or subjects professed.

Qualifying Courses.

Mathematics.—Three-term Course: as for M.A. See Faculty of Arts.

Zoology.—Lectures and Practical Work during the Autumn and Spring Terms, 1.30-3. Summer Term: Lectures and Laboratory Work on the Morphology of the Invertebrata; Mon., Wed., and Fri., 2-5.

Botany.—Three-Term Course: Tuesdays and Thursdays. Lectures at 2 P.M.; Practical Work in the Laboratory, from 3 P.M. until 5 P.M. Excursions during each of the three Terms.

¹ This applies to all extra-mural members in Edinburgh whose courses have been recognised.

Autumn Term.—A study is made of the Morphology of Phanerogamic Plants and their elementary Physiology.

Spring Term.—The life-histories of selected types of Cryptogamic Plants are studied.

Summer Term.—The work during this Term deals with Phanerogamic Plants, particularly those represented in the British Flora.

Natural Philosophy.—Three-term Course: see under Faculty of Arts. A full course in Natural Philosophy, for graduation in Pure Science, includes at least 75 Lectures, and 50 hours of Practical Work in the Laboratory.

Chemistry.—The Lecture Class meets on Mondays, Wednesdays, and Fridays from 10 to 11, during the three Terms. For Tutorial work, which is obligatory, the Class may be divided into two sections, which will meet on Tuesdays or Thursdays. The lectures are chiefly devoted to Elementary Inorganic Chemistry, embracing the more important metallic and nonmetallic elements and their chief compounds, together with an introduction to Chemical Theory.

The Laboratory Course must be taken in conjunction with the Lecture Course. It meets for two hours twice a week during the three Terms. The work will include simple inorganic preparations, the detection of the chief inorganic elements and compounds, and an introduction to Volumetric and Gravimetric Analysis.

Outline of Subjects of First Science Examination.

For Synopses of Courses, see pages 341-353.

MATHEMATICS.

For Subjects, see Courses on pages 207-210.

Candidates will be examined on the subjects of the courses which they have taken, viz. :—

Course.	Examination.
(a) Examination for Ordinary Degree, First Course.	
(b) Do.	do., Second do.
(c) Examination in Mathematics for Engineering, First Paper.	
(d) Do.	do., Second do.
(e) The Second and Third Papers in the Intermediate Honours Examination.	

Students who have attained a certain standard in their class work, which is determined by the Professor of Mathematics and the Additional Examiner, with the approval of the Senatus and University Court, will be exempted from the First Science Examination in Mathematics. At present the standard in question is the standard for a *second class certificate*.

ZOOLOGY.

(a) The General Principles of Biology.

(b) The structure, habits, and life history of *Amœba*, *Paramœcium*, *Euglena*, *Monocystis*, the Malarial Parasites, *Hydra*, *Obelia*, *Fasciola*, *Tœnia*, *Ascaris*, *Nereis*, *Arenicola*, *Helix*, *Nephrops*, and a Mosquito.

(c) A general knowledge of the orders of Vertebrata; the structure and habits of *Gadus*, *Raia*, *Rana*, *Columba*, and *Lepus*.

(d) Sexual and asexual reproduction; the early development of *Amphioxus*; the development and metamorphosis of *Rana*; the development of *Gallus* up to the third day of incubation; the early development of *Lepus*; the foetal membranes of birds and mammals.

(e) The Geographical Distribution of Animals.

(f) A general knowledge of Wallace's Darwinism.

The third term's work will consist of lectures and practical work on the Morphology of the Invertebrata. The groups to be studied in 1919 will be the Protozoa, Porifera, Coelenterata, and Vermes; and in 1920, the Echinoderms, Mollusca, Crustacea, and certain Insecta.

BOTANY.

The characteristic features of the following groups of the vegetable kingdom:—

Thallophyta, Bryophyta, Pteridophyta, Spermatophyta.

The fundamental facts and principles of Organography, Physiology, and Geographical Distribution.

The life-history of the following plants:—*Bacillus*, *Badhamia*, *Nostoc*, *Protococcus*, a Diatom, *Spirogyra*, *Vaucheria*, *Fucus*, *Polysiphonia*, *Mucor*, *Pythium*, *Saccharomyces*, *Eurotium*, *Peziza*, *Claviceps*, *Puccinia*, *Agaricus*, *Physcia*, *Marchantia*, *Funaria*, *Sphagnum*, *Aspidium*, *Equisetum*, *Selaginella*, *Cycas*, *Taxus*, *Pinus*, *Scilla*, *Capsella*, *Ulmus*.

The characters of the following natural orders of Phanerogamæ:—*Alismaceæ*, *Aroidæ*, *Boraginaceæ*, *Campanulaceæ*, *Caprifoliaceæ*, *Caryophyllaceæ*, *Chenopodiaceæ*, *Compositæ*, *Convolvulaceæ*, *Cruciferae*, *Cupuliferæ*, *Cyperaceæ*, *Dipsaceæ*, *Droseraceæ*, *Ericaceæ*, *Geraniaceæ*, *Graminææ*, *Hydrocharidææ*, *Labiataæ*, *Leguminosæ*, *Lemnaceæ*, *Lentibulariaceæ*, *Liliaceæ*, *Lythriaceæ*, *Malvaceæ*, *Naiadaceæ*, *Nymphaeaceæ*, *Onagraceæ*, *Orchidææ*, *Orobanchaceæ*, *Papaveraceæ*, *Plantagineæ*, *Primulaceæ*, *Ranunculaceæ*, *Rosaceæ*, *Rubiaceæ*, *Salicineæ*, *Saxifragaceæ*, *Scrophularinææ*, *Solanaceæ*, *Thymeleaceæ*, *Typhaceæ*, *Umbelliferæ*, *Urticaceæ*, *Valerianaceæ*.

NATURAL PHILOSOPHY,

including Elementary Dynamics, Properties of Matter, Electricity and Magnetism, and Heat, Light, Sound.

Candidates are required to submit to the Examiners properly authenticated and certified records of fifty hours of Laboratory work, which records will be taken into consideration.

Students who have attained a certain standard in their class work, which is determined by the Professor of Natural Philosophy and the Additional Examiner, with the approval of the Senatus and the University Court, will be exempted from the First Science Examination in Natural Philosophy. At present the standard in question is the standard for a *second-class certificate*.

CHEMISTRY.

Candidates will be examined by paper, and in the Laboratory, on the work of the First Lecture and Laboratory Courses.

FINAL SCIENCE EXAMINATION.

IX. (1) There shall be a Final Science Examination on a Higher Standard, in any three or more of the following subjects :—

1. Mathematics.
2. Natural Philosophy.
3. Astronomy.
4. Chemistry.
5. Human Anatomy, including Anthropology.
6. Physiology.
7. Geology, including Mineralogy.
8. Zoology, including Comparative Anatomy.
9. Botany, including Vegetable Physiology.

(2) The standard of this examination shall be as nearly as possible equivalent to that of the examination for the degree of Master of Arts with Honours, where the subjects are different; and where the subjects are the same, the examinations shall be identical.

(3) A subject already taken under the preceding Section for the First Science Examination may be taken also under this Section for the Final Science Examination.

(4) Candidates presenting themselves for this examination must have attended four full courses of higher instruction, including practical or laboratory work, in the subjects professed, subject always to the provisions of Sections VI. and VII. hereof.

(5) The Final Science Examination shall be taken not less than one year after the candidate has passed the First Science Examination.

Qualifying Courses.

In all subjects there are two standards of Study and of Examination—*Intermediate* and *Advanced*. In each of the subjects professed, candidates must pass the *Intermediate* Examination; and, in at least one subject, the *Advanced* Examination also. In Mathematics and Natural Philosophy the Examination is the same as for Honours in Arts. The following

Courses of Higher Instruction in this University qualify for the first and second stages (*Intermediate* and *Advanced*), respectively, of the Final Examination in Pure Science:—

1. **Mathematics.**—(1) *Intermediate Course*, as for Honours in Arts. (2) *Advanced Course*, as for Honours in Arts. Degree Examinations—Intermediate, October; Advanced, June. (See p. 216 as to Intermediate.)

2. **Natural Philosophy and Applied Mathematics.**—(1) *Intermediate*: Intermediate Honours Classes (Half-Courses) in Applied Mathematics, Heat, and Electricity; (2) *Advanced*: Final Honours Classes (Half-Courses) in Applied Mathematics (*a.* Advanced Dynamics, etc.; *b.* Quaternions in its Physical Applications), Advanced General Physics, Physical Optics, and (two Half-Courses) Electricity. Degree Examinations—Intermediate and Advanced, in June. An Intermediate Examination, for Students who are allowed to take Electricity instead of Dynamics, will be held in December.

3. **Astronomy.**—*Intermediate Course*: the Class Lectures and those parts of Berry's *History of Astronomy*, Young's *General Astronomy*, and Ball's *Spherical Astronomy* that deal with the same subject-matter, Elementary Astrodynamics, Practical Exercises; *Advanced Course*: the subject-matter of the advanced course, with practical work and knowledge of the text-books and memoirs that bear upon it; some further questions on subject-matter of the Intermediate Course. Degree Examinations—Intermediate, December and June; Advanced, June.

4. **Chemistry.**—(1) *Intermediate Course*: Intermediate Lecture and Laboratory Courses (see p. 344). (2) *Advanced Course*: Further Laboratory Work and Advanced Lecture Course (see p. 344). Degree Examinations—Intermediate, December and June; Advanced, June.

5. **Human Anatomy, including Anthropology.**—(1) *Intermediate Course*: Six months' Lectures on Systematic Anatomy (Winter Session), with at least six months' Practical Anatomy (it is recommended that the whole body should be dissected), and Summer Course in Anthropology. (2) *Advanced Course*: Further work in Anatomy and Embryology. Degree Examinations—March and June.

6. **Physiology.**—(1) *Intermediate Course*: Lecture Course, with Practical Chemical Physiology, Experimental Physiology, and Histology, as for Second M.B.; all the Advanced Practical Classes. (2) *Advanced Course*: Special work in the Laboratory, in addition to the above. Degree Examinations—Intermediate, March and June; Advanced, March.

7. **Geology, including Mineralogy.**—(1) *Intermediate Course*: Three-term Lecture Course, and Practical Class. (2) *Advanced Course*: Further Laboratory Work, and two additional Lecture Courses (see p. 348). Degree Examinations—Intermediate, December and June; Advanced, June.

8. **Zoology, including Comparative Anatomy.**—(1) *Intermediate Course*: Lectures on Invertebrate Zoology, and on Cytology and Embryology, with Laboratory Work. (2) *Advanced Course*: In addition to the foregoing:—Six months' Course on the Morphology of the Invertebrata and Vertebrata, and Laboratory Work. Degree Examinations—Intermediate, March and June; Advanced, June.

9. **Botany, including Vegetable Physiology.**—Degree Examinations—Intermediate, March and June; Advanced, July.

Outline of Subjects of Final Science Examination

MATHEMATICS.

Each Candidate must take the three Pure Mathematical Papers in the Intermediate Examination for M.A. Honours in the group of Mathematics and Natural Philosophy; and three or four of the Pure Mathematical Papers in the second stage of the Final Examination, according as he professes both Mathematics and Natural Philosophy on the higher standard, or Mathematics only. Paper (5) is compulsory.

NATURAL PHILOSOPHY AND APPLIED MATHEMATICS.

The subjects for Natural Philosophy on the Intermediate Standard are: (1) Intermediate Dynamics (A further course of Electricity—Advanced Electricity I.—may be substituted for Intermediate Dynamics in the case of students who do not proceed to Natural Philosophy on the Higher Standard); (2) Heat; (3) Intermediate Electricity. For the Higher Standard, three or four of the following additional subjects must be taken according as the candidate may or may not profess Mathematics on the higher standard as well as Natural Philosophy, viz.: Applied Mathematics (*a.* Advanced Dynamics; *b.* Quaternions in their Physical Applications), Advanced General Physics, Physical Optics, Electricity I., and Electricity II. Electricity I. must be taken by all candidates.

Properly authenticated records of Laboratory Work or of Original Research may be submitted to the Examiners by candidates as additional evidence of proficiency, and if submitted will be taken into consideration.

ASTRONOMY.

The Class Lectures, and those parts of Berry's *History of Astronomy*, Young's *General Astronomy*, and Ball's *Spherical Astronomy* that deal with the same subject-matter. Elementary Astrodynamics. Practical exercises.

CHEMISTRY.

Written Examinations.—Inorganic Chemistry, Organic Chemistry, and Physical Chemistry.

Candidates who take Chemistry on the Higher Standard will be required to show proficiency in the Intermediate Papers, as well as to satisfy the Examiners in the subjects of special papers of a more advanced

type. Alternative questions may be set which involve a reading knowledge of French and German.

Practical Examination.—*Intermediate*: Qualitative Analysis; the Preparation of Organic and Inorganic Substances; the Testing of Organic Compounds; Gravimetric and Volumetric Analysis.

Higher Standard: Candidates will also be examined in Ultimate Organic Analysis; Gas Analysis; Physico-chemical Measurements.

HUMAN ANATOMY, including ANTHROPOLOGY.

Candidates are required to show a competent knowledge of:—

- (a) The Principles of Embryology and of the Development of the Human Body.
- (b) The Position and General Arrangement of the "Systems" of Organs of which the body consists.
- (c) The Structure of the Organs and Tissues.
- (d) Surface Anatomy.
- (e) Race Characters as found in the skeleton, skin, eyes, hair, features, and general configuration.
- (f) The Methods of Anthropological Measurement of the skeleton and living bodies.
- (g) The Types of Mankind.
- (h) The Structural Relations between Man and the Higher Mammals.

An acquaintance with the technical applications of Human Anatomy to the practice of Medicine and Surgery is not required.

ANIMAL PHYSIOLOGY.

(Written and Practical Examinations.)

The minute Structure, Chemical Composition, and Functions of the Tissues and Organs of the Animal Body.

The Chemical Composition and Products of the Foods and Fluids involved in the Processes of Nutrition and Secretion.

In the Practical Examination candidates will be required to show a thorough practical acquaintance with the methods employed in Histology, Chemical Physiology, and Experimental Physiology.

GEOLOGY, including MINERALOGY.

1. *Dynamical Geology*.—The nature and operation of geological agents: The Atmosphere, Rain, Terrestrial Waters, Ice, the Sea, Plants and Animals, Volcanoes, Movements of the Earth's Crust.

2. *Mineralogy*.—Physical and Chemical characters of the more important and typical species in the various mineral groups—more especially rock-forming minerals and ores.

3. *Petrography*.—Macroscopic and Microscopic Characters, Composition, Origin, and Distribution of Rocks.

4. *Structural Geology*.—Structure of Rock-masses, Inclination and Curvature of Rocks, Joints, Cleavage, Foliation, Metamorphism, Faults, Overlap, Unconformity.

5. *Physiographical Geology*.—Origin of the present outlines of the Earth's surface.

6. *Palæontological Geology*.—Characters, and distribution in time, of the more important Orders and Genera, especially those found fossil in Britain.

7. *Stratigraphical Geology*.—The History of the Geological Systems—more especially those of the British Islands.

For the Final Examination on the *Higher Standard*, students must take Courses A, B, D, and E; for the Final Examination on the *Intermediate Standard*, Courses A and B. (See pp. 346-348.)

ZOOLOGY, including COMPARATIVE ANATOMY.

1. The Systematic Zoology of the Invertebrate and Vertebrate groups.

2. Cytology and the Comparative Anatomy and Embryology of the Invertebrata and Vertebrata. See also p. 427.

3. The Principles of Natural Selection, a knowledge of the Geographical Distribution of Vertebrate Animals.

The following books are recommended:—Sedgwick's *Text-book of Zoology*, Parker and Haswell's *Text-book of Zoology*, Wiedersheim's *Comparative Anatomy of Vertebrates*, Marshall's *Vertebrate Embryology*, Darwin's *Origin of Species*, Wallace's *Darwinism*, and *Island Life*, Thomson's *Heredity*, Punnett's *Mendelism*, Darbishire's *Breeding and the Mendelian Discovery*, and, for reference on special subjects, Lankester's *Treatise on Zoology*, *Cambridge Natural History*, MacBride's *Text-book of Embryology*, I. Invertebrates, Wilson's *Cell*, Lillie's *Development of Chick*, Jenkinson's *Experimental Embryology*, Bateson's *Mendel's Principles of Heredity*, Kellicott's *Text-book of General Embryology*.

BOTANY, including VEGETABLE PHYSIOLOGY.

Intermediate Standard.

1. Organography and Physiology of Plants.

2. Life-history of the following:—*Fungi*—Sporodinia, Saprolegnia, Cystopus, Peronospora, Phytophthora, Synchytrium, Protomyces, Pyrenoma, Morchella, Rhytisma, Tuber, Penicillium, Sphaerotheca, Nectria, Xylaria, Exoascus, Ustilago, Gymnosporangium, Hirneola, Dactyomyces, Exobasidium, Stereum, Clavaria, Merulius, Polyporus, Armillaria, Coprinus, Crucibulum, Lycoperdon, Phallus. *Lichenes*—Collema, Cladonia. *Algae*—Euglena, Volvox, Closterium, Olothrix, Ædogonium, Coleochaete, Chara,

Ectocarpus, Dictyota, Laminaria, Batrachospermum, Nemalion, Polysiphonia, Pleurococcus. *Bryophyta*—Riccia, Peltia, Diplophyllum, Anthoceros, Mnium, Polytrichum. *Pteridophyta*—Lycopodium, Isetes, Ophioglossum, Marattia, Osmunda, Hymenophyllum, Cyathea, Polypodium, Marsilia, Salvinia. *Gymnospermæ*—Ginkgo, Ephedra. *Angiospermæ*—Eranthis, Nymphæa, Euonymus, Lathyrus, Rosa, Drosera, Erica, Streptocarpus, Lathræa, Pinguicula, Utricularia, Quercus, Orchis, Iris, Lemna, Zostera, Carex, Triticum.

3. Elements of Ecology.

4. The natural orders of Phanerogamæ represented in Great Britain.

Higher Standard.

1. Organography and Physiology of Plants.

2. The Principles of Plant Classification, and the Systematic Characters of the chief Families of Plants, including the Life-Histories of Representative Types.

3. The chief facts of Geographical Distribution, floristic and ecological, and the explanation of these.

4. The chief facts of Vegetable Palæontology, and their bearing on the Theory of Descent.

X. If a student, before passing the Preliminary Examination, has attended a class qualifying for graduation, the Senatus may, on special cause shown, permit him to count such class for graduation, on condition of his passing the full Preliminary Examination within such time thereafter as the Senatus may appoint, and in every case the Senatus shall make a report to the University Court setting forth the reasons for the relaxation.

XI. A candidate for the degree of Bachelor of Science shall not be deemed to have attended a class as part of the Curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XII. It shall be competent to the Examiners for the degree of Bachelor of Science to report that a candidate has passed with special distinction in one or more of the subjects professed by him; and in such a case a Diploma shall be given setting forth the subjects in respect of which the degree has been granted, and the subject or subjects in which special distinction has been obtained.

DEGREE OF DOCTOR OF SCIENCE.

(Pure Science.)

1. Graduates of this University who have held the degree of B.Sc. for five years may offer themselves for the degree of D.Sc. Candidates must profess one of the following branches of Science:—Mathematics; Natural Philosophy; Astronomy; Chemistry; Human Anatomy, including Anthropology; Physiology, including Histology; Geology, including Mineralogy;

Zoology, including Comparative Anatomy; Botany, including Vegetable Physiology; and in this they will be expected to show a thorough knowledge.

2. Masters of Arts of this University who have taken the degree with first or second class honours under the conditions prescribed by the present Regulations for degrees in Arts or under the Regulations previously in force in this University, or who have taken a degree in any Scottish University which the Senatus shall hold to be equivalent to such degree with honours as aforesaid, may offer themselves for the degree of D.Sc. after the expiry of five years from the date of their graduation in Arts, under the same conditions as if they held the degree of B.Sc.

3. Research Students within the meaning of the Regulations for the Encouragement of Special Study and Research and for the appointment of Research Fellows (see pp. 141a-141c), may offer themselves for the degree of D.Sc. of the University in which they have prosecuted some special study or research, although they have not taken the degree of B.Sc. or the degree of M.A. with honours as aforesaid, in that University; provided—

- (1) That they hold the degree of Bachelor of Science or Bachelor of Medicine of a Scottish or any recognised University, or a degree of any such University, which the Senatus shall hold equivalent to the degree of B.Sc. or to the degree of M.A. with first or second class honours in Mathematics and Natural Philosophy; provided that candidates who hold any such degree from a University outside the United Kingdom may be required, if the Senatus think fit, before beginning their course as Research Students with a view to the degree of D.Sc., to pass an examination equivalent to an Honours or to a Final Science examination in a group of subjects cognate to their line of work as Research Students.
- (2) That they have spent not less than two winter sessions, or an equivalent period, as Research Students in the University granting the degree, and that they produce evidence of satisfactory progress in the special study or research undertaken by them during that period.
- (3) That a period of not less than five years shall have elapsed from the date of the graduation required in sub-section (1) of this section.

4. All candidates for the degree of D.Sc. shall present a Thesis or a published Memoir or Work, to be approved by the Senatus on the recommendation of the Faculty of Science; provided that, if required by the Senatus, the candidate shall also be bound to pass such an examination, conducted orally or practically, or by written papers, or by all of these methods, on the subjects of his special study, or of his Thesis, as may from time to time be determined. The Thesis shall be a record of original research undertaken by the candidate, and shall be accompanied by a Declaration, signed by him, that the work has been done, and the Thesis composed by himself.

The Thesis must be lodged with the *Dean of the Faculty of Science*, and the fees paid, on or before 31st December for March Graduation, and on or before 1st May for July Graduation.

5. Notwithstanding and in supplement of the Regulations as to Examinations, the Senatus Academicus shall appoint such Professors or Lecturers as it may think suitable to conduct the examination of candidates who may offer themselves for the degree of D.Sc., and the University Court shall, after consultation with the Senatus Academicus, appoint an additional Examiner to act along with them. Such additional Examiner shall be a person of recognised eminence in the subject of the thesis, or memoir, or work which is to be submitted for approval. The result of the examination shall be reported to the appropriate Faculty or Committee of Senatus.

6. The degree of D.Sc. shall in no case be conferred on persons who have not satisfied the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

7. The fee for examination for D.Sc. is £10, 10s.; for re-examination, £5, 5s. Candidates must also pay the Matriculation Fee of £1, 1s.

DAILY TIME-TABLE OF GRADUATION COURSES FOR FIRST EXAMINATION IN PURE SCIENCE.

Hour.	Autumn Term.	Spring Term.	Summer Term.
9-10	Mathematics (daily). (1st Ordinary.)	Mathematics (daily).	Mathematics (Mon., Wed., Fri.).
10-11	Chemistry (Mon., Wed., Fri.). (Tutorial, Tu. or Th.)	Chemistry (Mon., Wed., Fri.). (Tutorial, Tu. or Th.)	Chemistry (Mon., Wed., Fri.). (Tutorial, Tu. or Th.)
11-12	Natural Philosophy (Mon., Wed., Fri.).	Natural Philosophy (Mon., Wed., Fri.).	Natural Philosophy (Mon., Wed., Fri.).
12-1	Mathematics (daily). (2nd Ordinary.) Chemistry Medical Class, daily, open to Science Students only under special conditions.	Mathematics (daily). Chemistry Medical Class, daily, open to Science Students only under special conditions.	Mathematics (Mon., Wed., Fri.).
1-2	Zoology — (Lects. and Pract.) (1.30 to 3) (Mon., Wed., Fri.).	Zoology — (Lects. and Pract.) (1.30 to 3) (Mon., Wed., Fri.).	...
2-3	Botany (Tu., Th.).	Botany (Tu., Th.).	Botany (Tu., Th.). Invert. Zoology (Mon., Wed., Fri.).
3-5	Practical Botany (Tu., Th.).	Practical Botany (Tu., Th.).	Practical Botany (Tu., Th.). Invert. Zoology (Mon., Wed., Fri.).

Hours for Laboratory Work in Chemistry and Natural Philosophy must be specially arranged for each student.

DAILY TIME-TABLE OF GRADUATION COURSES FOR FINAL EXAMINATION
IN PURE SCIENCE.

Hour.	Autumn Term.	Spring Term.	Summer Term.
8-10	...	...	Histology.
9-10	Botany—Intermediate. ¹ Botany—Advanced. ¹ Regional Anatomy. Chemistry—Advanced (Tu, Th.).	Heat (Mon., Wed., Fri.). Botany—Intermediate. ¹ Botany—Advanced. ¹ Regional Anatomy. Chemistry—Advanced (Tu, Th.).	Electricity—Intermediate (Mon., Wed., Fri.). Quaternions (3 hours per week). Botany—Advanced. ¹ Chemistry—Advanced (Tu, Th., Fri.).
10-11	Mathematics—Advanced (daily). Chemistry—Intermediate (Mon., Tu, Wed.). Physiology.	Mathematics—Advanced (daily). Chemistry—Intermediate (Mon., Tu, Wed.). Physiology.	General Physics—Advanced (Mon., Wed., Fri.). Chemistry—Intermediate (Mon., Tu, Wed.). Regional Anatomy.
11-12	Mathematics—Intermediate (daily). Hydrodynamics and Elasticity (3 hours per week). Plant Physiology. Anatomy. Experimental Physiology (11-1).	Mathematics—Intermediate (daily). Electricity II. (Tu, Th.) Dynamics—Advanced, etc. (3 hours per week). Waves, Æthereal and Material (3 hours per week). Anatomy. Chemical Physiology (11-1).	Mathematics—Intermediate (Mon., Wed., Fri.). Mathematics—Additional Summer Course (Mon., Wed., Fri.). Kin. Theory of Gases, Radiation (3 hours per week). Plant Physiology. Histology (11-1). Petrology (11-1) (Mon., Wed., Fri.).

12-1	Electricity I. (Mon., Wed., Fri.). Inter. Dynamics (Mon., Wed., Fri.). Physical Optics (Tu., Th.). Chemical Physiology—Advanced. (Hours to be arranged.) Cytology (Practical before and after).	Inter. Dynamics (Mon., Wed., Fri.). Chemical Physiology (11-1). Embryology (Pract. before and after).	Histology (11-1). Inter. Dynamics (Mon., Wed., Fri.). Petrology (11-1) (Mon., Wed., Fri.).
1-2	...	...	Practical Geology. Anthropology (Mon., Wed., Fri.).
2-3	Practical Geology (2-4) (Mon., Wed., Fri.).	Practical Geology (2-4) (Mon., Wed., Fri.). Experimental Physiology—Advanced (2-4)	Zoology—Invertebrata (2-5) (Mon., Wed., Fri.).
3-4	Astronomy (Tu., Wed., Th.). Practical Geology (2-4) (Mon., Wed., Fri.).	Astronomy (Tu., Wed., Th.). Practical Geology (2-4) (Mon., Wed., Fri.). Experimental Physiology—Advanced (2-4)	Astronomy (Tu., Wed., Th.). Zoology—Invertebrata (2-5) (Mon., Wed., Fri.).
4-5	Geology (Mon., Wed., Fri.). Palaeontology.	Geology (Mon., Wed., Fri.).	Geology (Tu., Th.). Zoology—Invertebrata (2-5) (Mon., Wed., Fri.).
5-7	Astronomy (Friday) at Observatory.	Astronomy (Friday) at Observatory.	Astronomy (Friday) at Observatory.

¹ The Lectures in Botany are held at suitable hours during the forenoon. Laboratory Work on the Intermediate Standard is from 9 till 1, during the Autumn and Spring Terms. Laboratory Work on the Advanced Standard is from 9 till 5.

GRADUATION IN ENGINEERING.

* * Before deciding upon their courses of study, all Engineering students are advised to consult the Professor of Engineering.

REGULATIONS AND CURRICULUM FOR DEGREES IN ENGINEERING.¹

N.B.—*Paragraphs headed with Roman Numerals are from the Ordinance, No. 21 of the Scottish Universities Commissioners.*

The Engineering Department of the University is located in the large new block of buildings at High School Yards. This block of buildings, which was completed during the winter session 1905-6, includes lecture rooms, a large drawing office, laboratories for Hydraulics, Strength of Materials, and Experimental Mechanics, and large workshops. A full account of the buildings is given in Appendix I., CALENDAR, 1906-7.

I. Two degrees in Science in Engineering are conferred by the University of Edinburgh—viz., Bachelor of Science in Engineering and Doctor of Science in Engineering.

Preliminary Examination.

II. See earlier section, pages 87 to 106.

Courses of Instruction.

III. (1) Candidates must, in the course of not less than three academical years (*i.e.*, three Winter Sessions and two Summer Sessions), attend at least the eleven courses of Instruction prescribed under Section VIII. hereof.

(2) It is the duty of the Senatus to determine from time to time which of the said courses are full and which are half courses respectively, and also to determine the number of meetings of which such full courses and half courses respectively shall consist, and to report its determination to the University Court for its approval.

IV. (1) Five full courses or their equivalent (counting two half courses as one full course) must be taken in the University of Edinburgh, and

¹ Students who have taken the degree of B.Sc. in Engineering, and have had some practical training in the office of an engineer, are eligible for appointment to the Public Works Department of the Indian Government. Full particulars as to these appointments can be obtained from Prof. Hudson Beare.

must include the necessary courses in Engineering, except where the University Court, after consultation with the Senatus, sees fit to allow one of the courses in Engineering to be taken outside the University under the provisions of the next sub-section.

(2) The remainder of the said courses may be taken in other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science in Engineering:¹ Provided that the fees for attendance at an approved Institution in Edinburgh or under a recognised teacher there are not less than the fees exigible for the corresponding courses in the University of Edinburgh.

See Schemes of Study — University and Heriot-Watt College—pages 355 to 364.

V. The University Court may make regulations to enable candidates, not matriculated students of the University of Edinburgh, availing themselves of the permission to attend lectures at approved institutions or by recognised teachers in Edinburgh to obtain, on payment of a fee not exceeding in amount the matriculation fee paid by the students of the University, a right to the use of the Library of the University.

VI. (1) It is the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Senatus a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Senatus transmits such scheme, with such observations as it may think fit to make thereon, to the University Court for its approval.

(2) It is the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Faculty of Science, for its consideration, syllabuses of the subjects and books proposed for the work of their classes during the next academical year. The Faculty of Science transmits such syllabuses, with such observations as it may think fit to make thereon, to the Senatus for its approval.

VII. The provisions of the preceding section do not apply to approved Institutions or recognised teachers outside Edinburgh; but the University Court will not grant or continue recognition to any Institutions or teachers unless it is satisfied that their courses of instruction are equivalent to the courses sanctioned in the University of Edinburgh.

[There is a Joint Advisory Committee on Engineering Studies, consisting of the Professors of Mathematics, Natural Philosophy, Chemistry, and Engineering, and the Dean of the Faculty of Science, together with representatives of the Governors of George Heriot's Trust.]

Subjects of Study.

VIII. The subjects of study shall be as follows:—

- 1, 2. Mathematics, including Analytical Geometry, Spherical Trigonometry, and Differential and Integral Calculus.

¹ See p. 419.

3. (a) Natural Philosophy Lectures, (b) Natural Philosophy Laboratory Work.¹
4. (a) Chemistry Lectures, (b) Chemistry Laboratory Work.²
- 5, 6. Two Courses in Practical work in Drawing.
- 7, 8, 9. Three Courses in Engineering, including Engineering Laboratory Practice, and Field Work.
10. Applied Mathematics (Dynamics, including Elasticity).
11. One of the following :—
 - (a) Engineering Laboratory Practice, Advanced Work—Civil, Mechanical, or Electrical.
 - (b) Electrical Engineering.
 - (c) Geology and Mineralogy.

FIRST SCIENCE EXAMINATION.

See Synopses of Courses, pages 365-366.

IX. (1) There is a First Science Examination in the three following subjects, viz. :—(1) Mathematics, (2) Natural Philosophy, (3) Chemistry ; and the examinations in Natural Philosophy and in Chemistry are, so far as possible, practical.

The examination in Geometrical Drawing may be taken either at the First or at the Final Science Examination.

(2) The examination in Mathematics includes the higher branches of Mathematics specified under Mathematics in the section immediately preceding ; but it is optional to candidates to pass the same examination in this subject as that required for the ordinary degree of M.A., provided that in that case they will be required, before graduation, to pass an examination in the remainder of the subject.

(3) Candidates may present themselves in any one or more of the subjects of the First Science Examination at any examination held after they have attended a full course in the subject or subjects professed.

The following Classes in the University qualify for the First Science Examination in Engineering :—

Mathematics—First Technical Course.—Daily, from 9 to 10, in Autumn and Spring Terms ; Mondays, Wednesdays, Fridays, 9 to 10, in Summer Term. Second Technical Course.—Daily, from 11 to 12, in Autumn and Spring Terms (Second Year).

Natural Philosophy Class (including Laboratory work).—Daily, from 11 to 12, in three Terms.

Chemistry Class and Laboratory (First Year's Course).—See under Pure Science.

¹ The course in Natural Philosophy consists of lectures, together with 50 hours of Laboratory work.

² Elementary Science Courses (see p. 428).

Outline of Subjects of Examination.

MATHEMATICS.

There are two papers each of three hours, the first on a lower, the second on a higher standard. Candidates may present themselves for examination in the first paper whenever they have duly completed the first part of the complete Technical Mathematics course. The use of the calculus is not excluded from the first or lower paper.¹ The second paper may be taken as part either of the first or second B.Sc. examination in Engineering.

First Paper.—Subjects:—Mensuration; Plane Trigonometry with reference to Surveying, including trigonometrical solution of plane triangles, involving the use of logarithmic tables; Elementary Spherical Trigonometry; Elementary Algebra, including calculations with and without the use of logarithms; the use of Graphic Methods (involving the use of drawing instruments and ruled papers to be brought by the candidates); Elementary Co-ordinate Geometry, including Curve Tracing; some elementary parts of the Differential and Integral Calculus; Simple Practical Applications of these subjects.

Second Paper.—The subjects of the First Paper on a somewhat higher standard, and in addition:—Elementary Spherical Trigonometry, with practical applications; Elementary Co-ordinate Geometry, Curve Tracing, and an introduction to Solid Geometry; Differential and Integral Calculus, including elementary applications to curves, maxima and minima, parametric equations, functions of more than one independent variable, lengths, areas, volumes, curvature, centres of mass, moments of inertia; Simple Differential Equations; Practical Applications of these subjects, chiefly from the engineer's point of view.

NATURAL PHILOSOPHY.

The examination is the same as for the First B.Sc. in Pure Science. Candidates must submit to the Examiners properly authenticated records of 50 hours of Laboratory work.

CHEMISTRY.

The Written Examination will be similar to that for Pure Science.

The Practical Examination, whilst of the same general character as the corresponding examination for B.Sc. in Pure Science, will be specially directed to substances of importance to Engineering Students, and will not be held as equivalent to the Practical Examination in Chemistry for Pure Science.

¹ A candidate who has passed the M.A. examination in Mathematics in this University is exempted from the first of these papers.

FINAL SCIENCE EXAMINATION.

See Synopses of Courses, pages 366-381.

See also Time-Tables, pages 355 to 364.

X. (1) There is a Final Science Examination in the remaining subjects specified in Section VIII.; and, if required, in the higher branches of Mathematics as provided in Section IX., Sub-section 2.

(2) Candidates may present themselves in one or more of these subjects at any examination after they have passed the whole of the subjects in the First Science Examination and have attended the required courses in the subjects professed, provided that for this purpose subjects 5, 6, 7, 8, and 9, specified in Section VIII., shall form one subject.

XI. A candidate for the degree of B.Sc. in Engineering is not deemed to have attended a class as part of the curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XII. It is competent to the Examiners for the degree of B.Sc. in Engineering to report that a candidate has passed with special distinction in one or more of the subjects professed by him; and in such a case a diploma is given setting forth the subjects in respect of which the degree has been granted, and the subject or subjects in which special distinction has been obtained.

XIII. It is competent to the University Court to modify from time to time the provisions as to the curriculum, in case such modification be rendered desirable by the development of Engineering Science, or in consequence of further provisions having been made within or without the University for the study of any branch of the said Science: Provided that in no case shall the number of full courses of study required be less than the number required for the degree of B.Sc. in Pure Science.

The following classes in the University qualify for the Final Science Examination in Engineering:—

1. Drawing—Class of Engineering and Mechanical Drawing, during six Terms.
2. Engineering—(a) The Junior and Senior Classes of Engineering;
(b) Class of Engineering Field-Work, held in Summer.
3. Applied Mathematics—Advanced Course of Dynamics and Elasticity: Winter Session.
4. Engineering Laboratory, or Geology and Mineralogy—A three months' Course in either.

Outline of Subjects of Examination.

DRAWING.

The *First Paper* embraces all the subjects of instruction dealt with in the Junior Drawing Course of Three Terms, and also in the Course of Junior Engineering.

The candidate may sit for this paper at any examination held after attendance on the Courses of Instruction, but he will not be held to have passed until he have passed in the remaining Engineering subjects.

(See Sections IX. and X. of Regulations.)

The *Second Paper* consists of the Design of Structures or Machines from data supplied, and the making of detailed drawings from the candidate's own designs.

ENGINEERING.

Field-Work.—Surveying; Levelling; Setting out of Work; Calculation of Quantities.

Properties of Materials.—General Properties, with special knowledge of the purposes to which they are applied, and some knowledge of the processes employed in their manufacture.

Strength and Elasticity of Materials.—Stress, Strain, and Elasticity, Beams and Bending Stresses, Struts and Columns, Torsion and Shear, Compound Stresses, Deflection of Girders and Theorem of Three Moments.

Strength of Structures.—Reciprocal Figures, Stresses in Braced Structures, Incomplete and Redundant Frames, Travelling Loads and Wind Stresses, Rigid and Hinged Arches, Earth Pressures, Retaining Walls and Foundations, Stability of Masonry, Concrete and Brickwork Structures.

Hydraulics.—Steady and Unsteady Motion, Bernoulli's Theorem, Laws of Flow through Orifices and Notches, Laws of Fluid Friction, Flow in Pipes, Channels, Gauging of Flow of Streams, Impact of Water on Surfaces.

Design of the Elements of Machines, including Belt and Rope Gearing, Wheel Trains and Teeth, Bevel Gearing, Cams, etc.

Design of Combined Structures.—An elementary knowledge of the design of Bridges and Roofs, of Reservoirs, Embankments, collecting and distributing machinery of Waterworks, and of the main features of Railway Construction, Harbours, and Drainage.

Design of Machinery.—An elementary knowledge of the design of the Steam Engine, stationary and locomotive, and of the Steam Turbine, and of Prime Movers driven by Water.

Prime Movers.—Theory of Heat Engine. The Hot Air Engine. The Steam Engine. Reciprocating Engines. Turbines. The Gas and Oil Engine. Turbines and Water Wheels. *Power Transmission*—Hydraulic, Electric.

Engineering Laboratory Practice.—The testing of materials; the testing of engines, steam, gas, and oil; the testing of boilers; the testing of hydraulic motors, etc.

APPLIED MATHEMATICS.

Dynamics of Particle: Vector quantities; Momentum; Force; Moments; Energy, kinetic and potential; Positional Forces, constant, central, gravitational; Motional and Frictional Forces; Sinusoidal or Vibratory Motion about position of Stability; Forces of Constraint.

Dynamics of Flexible Cords: Catenaries, belts, strings; Transverse Vibrations.

Dynamics of Rigid Bodies: Rotations and Spins; Centroids; Moment of Momentum; Moments and Axes of Inertia; Energy of Rotation; Gyroscopic Action.

Dynamics of Fluids: Theoretical Principles of Hydraulics.

Dynamics of Strain: Homogeneous Strain, compression, shear; Related Stresses; Incompressibility, Rigidity, Young's Modulus; Pressure in Tubes; Flexure, Torsion, Vibration of Bars.

ENGINEERING LABORATORY PRACTICE, MECHANICAL OR ELECTRICAL.**ELECTRICAL ENGINEERING.****GEOLOGY AND MINERALOGY.**

(Qualifying Course.—Class of Structural and Field Geology.)

Dynamical Geology.—Nature and operation of geological agents:—The Atmosphere, Rain, Terrestrial Waters, Ice, the Sea, Plants and Animals, Volcanoes, Movement of the Earth's Crust.

Mineralogy.—Physical and Chemical Characters of the more important and commonly occurring rock-forming minerals and ores.

Petrography.—Macroscopic and Microscopic Characters, Composition, Origin, and Distribution of Rocks.

Structural Geology.—Structure of Rock-Masses, Bedding, Joints, Cleavage, Foliation, Metamorphism, Faults, Unconformity.

Applied Geology.—The Applications of the Science to various Engineering Operations.

Doctorate of Science in Engineering.

XIV. Graduates of the University of Edinburgh who have held the degree of B.Sc. in Engineering for five years, may offer themselves for the degree of D.Sc. in Engineering.

XV. A candidate for the degree of D.Sc. in Engineering must present a Thesis,¹ or a published memoir or work, to be approved by the Senatus on the recommendation of the Faculty of Science: Provided that, if required by the Senatus, the candidate must pass such examination as may be determined. The Thesis must be a record of original research under-

taken by the candidate, or of important engineering work designed by himself, and actually carried out, and must be accompanied by a declaration, signed by him, that these conditions have been satisfied.

General.

XVI. Candidates who produce certificates that they have satisfied all the conditions prescribed by these Regulations, and who have passed the necessary examinations, will be entitled to receive the degrees of B.Sc. in Engineering and D.Sc. in Engineering, as the case may be, on the payment of the fees required.

XVII. A student who, when these Regulations came into operation, had completed a part of his course of study with a view to graduation in Science in Engineering in the University of Edinburgh, under regulations in force at the time, and who thereafter completes his course of study and passes the necessary examinations in conformity with such regulations, or with the provisions hereof, may become a candidate for the degree of B.Sc. in Engineering.

XVIII. The degrees of B.Sc. and D.Sc. in Engineering are in no case conferred on persons who have not complied with the above conditions, and are not conferred *honoris causâ tantum*.

DEGREES IN CIVIL, MECHANICAL, AND ELECTRICAL ENGINEERING.

The Edinburgh University Court, in conjunction with the Governors of George Heriot's Trust, have drawn up a complete scheme for the training of Engineers, which will enable Engineering Students to obtain degrees in the three departments of Civil, Mechanical, and Electrical Engineering, by the utilisation of the teaching staff and equipment of Edinburgh University and the Heriot-Watt College. In order to make the scheme clear to students, Time-Tables are given on pages 355 to 364 for these three types of degree, showing the classes to be attended at the Edinburgh University and at the Heriot-Watt College.

¹ The Thesis must be lodged with the Dean of the Faculty, on or before 31st December for March Graduation, on or before 1st May for July Graduation.

GRADUATION IN PUBLIC HEALTH. REGULATIONS AND CURRICULUM FOR DEGREES IN PUBLIC HEALTH.

I. Two degrees in Science in Public Health are conferred by the University of Edinburgh, viz., Bachelor of Science in Public Health and Doctor of Science in Public Health.

Bachelor of Science.

II. Candidates for the degree of B.Sc. in Public Health must be graduates in Medicine of a University of the United Kingdom, or of some other University recognised for the purpose by the University Court of the University of Edinburgh.¹

III. Candidates must be matriculated for the year in which they appear for examination or graduation.

(A) First Examination.

IV. Candidates for the degree of B.Sc. in Public Health, before proceeding to the first examination, must produce evidence (1) that, after their graduation in Medicine, they have practically studied Bacteriology, the Pathology of the Diseases of Animals transmissible to man, and Chemistry as applied to Public Health, for at least twenty hours per week, during a period of not less than eight months, of which at least five consecutive months must be in the Public Health Laboratory of the University of Edinburgh, and the remainder in the foresaid Laboratory, or in a Public Health Laboratory recognised for the purpose by the University Court; ² and (2) that they have attended in the University of Edinburgh or elsewhere, in addition to the course of lectures in Physics qualifying for graduation in Medicine, such further course in Physics as the Senatus Academicus, with the approval of the University Court, shall deem necessary,³ and such a course of lectures in Geology, extending over not less than three months, as the Senatus, with the like approval, shall deem sufficient and appropriate.

The Courses in this University which at present qualify are the Laboratory Course in Physics for Students in Public Health, and either the Class of Geology and Mineralogy or the Course in Structural and Field Geology.

¹ Universities specially recognised under this section:—University of Brussels; University of Würzburg; McGill University, Montreal; University of Harvard, U.S.A.; Queen's College, Kingston, Ont., Canada; Punjab Univ., India.

² Public Health Laboratories recognised under this section:—University, Birmingham; Liverpool School of Science and Technology; King's College, University of London; University of Aberdeen; Pasteur Institute, Paris; University of Cambridge; The Army Medical College, London; Government Bacteriological Institute, Hong Kong; Dr William Robertson, Edinburgh (Course of Lectures on Public Health); Dr William R. Smith, Royal Institute of Public Health.

³ Teacher recognised under this sub-section:—Dr Dawson Turner, Edinburgh (Practical Physics).

(B) Second Examination.

V. Candidates for the degree of B.Sc. in Public Health are not admitted to the second examination for the degree sooner than eighteen months after having taken their degree in Medicine, nor sooner than six months after having passed their first examination for the degree of B.Sc. in Public Health. They must have attended, subsequent to Graduation in Medicine, two separate courses in Public Health in the University of Edinburgh, or in any University of the United Kingdom, or any Indian, Colonial, or Foreign University recognised for the purpose by the University Court, or in such Medical School or under such teacher as may be recognised or approved for the purpose by the University Court, each course consisting of forty lectures at least; one of these courses shall deal with Medicine and the other with Engineering, each in its relation to Public Health, in such manner as the Senatus Academicus, with the approval of the University Court, shall determine.

They must also give evidence that, subsequent to Graduation in Medicine, (1) they have, during three months, which must be separate and distinct from the period of Laboratory instruction, been diligently engaged in acquiring a practical knowledge of the duties, routine and special, of Public Health administration under the supervision of (a) a Medical Officer of Health recognised for this purpose by the General Medical Council; or (b) a Sanitary Staff Officer of the Royal Army Medical Corps, having charge of an Army Corps, District or Command, recognised for this purpose by the General Medical Council; (2) that they have attended during three months the practice of an Hospital for Infectious Disease, at which opportunities are afforded for the study of methods of administration; and (3) that they have had three months' instruction in Mensuration and Drawing under a teacher recognised for this purpose by the University Court.

The lectures in this University which qualify are—(1) Advanced Course of Public Health and Sanitary Science, by the Professor of Public Health; and (2) the course of instruction (Theoretical and Practical) in Sanitary Engineering and Building Construction, by the Professor of Engineering, and the Class of Mensuration and Drawing, by the Lecturer on Drawing.

VI. There is a First Examination for the degree of B.Sc. in Public Health in (1) Laboratory Work, the examination being practical, written, and oral; (2) in Physics; and (3) in Geology: if an examination in Physics or Geology, as the case may be, qualifying for graduation either in Science or Arts has not previously been passed by the candidate.

Outline of Subjects of First Science Examination.**LABORATORY WORK.**

(1.) *Examination of Water.*—Physical Properties, Chemical Properties, Microscopical Appearances, Pollution of Potable Waters.

(2.) *Examination of Air.*—Temperature, Pressure, Humidity; Carbonic Acid, Micro-organisms, Organic Matter, Noxious Emanations.

(3.) *Examination of Foods.*—Milk, Butter, Oleomargarine, Flour, Bread, Starchy foods, Sugar, Honey, Butcher meat, Fish, Vegetables.

(4.) *Examination of Beverages.*—Tea, Coffee, Cocoa, Alcoholic Beverages, Aerated Waters.

(5.) *Examination of Condiments.*—Pepper, Mustard, Vinegar, and Preserves; Examination of Lime Juice. Nutritive Value of Dietaries.

(6.) *Sewage.*—Examination of sewage and of effluents after treatment.

(7.) *Soils.*—Temperature, Humidity, Permeability, Chemical Composition, Gases of the Soil, Micro-organisms.

(8.) *Disinfectants and Deodorisers.*—Chemical Examination of the Materials; Determination of their comparative power.

(9.) *Building Materials.*—Chemical and Physical Properties.

(10.) *Clothing.*—Physical Properties of Clothing Materials.

(11.) *Bacteriology.*—Micro-organisms in relation to Epidemic and other Diseases. Culture and recognition of Pathogenic and Non-Pathogenic, Aerobic and Anaerobic, Micro-organisms.

PHYSICS.

(1.) *Properties of Solids and Fluids.*—Specific Gravity, Elasticity, Laws of Pressure, Surface Tension, Viscosity.

(2.) *Heat.*—Thermometers, Expansion, Hygrometry, Boiling-points, Specific Heat, Latent Heat.

(3.) *Light.*—Lenses, Refractive Indices, Photometry, Polarisation, Spectrum Analysis.

(4.) *Electricity.*—Current Strength, Resistance, Electrolytic Resistance, Batteries, Galvanometers.

GEOLOGY.

(1.) *Dynamical Geology.*—The nature and operation of Geological agents:—The Atmosphere, Rain, Underground Water, Rivers, Ice, the Sea, Plants and Animals, Volcanoes, Movements of the Earth's Crust.

(2.) *Mineralogy and Petrology.*—Characters of the more common and widely distributed minerals and rocks.

(3.) *Structural Geology.*—The structure of rock-masses, more especially Bedding, Inclination and Curvature, Joints, Faults. Water-supply and Draining in connection with Geological Structure. Nature and Origin of Soils and Sub-Soils.

VII. There is a Second Examination, written, oral, and as far as possible practical, for the degree of B.Sc. in Public Health in the following subjects, included in the course of instruction in Public Health—viz. (1) Sanitation, (2) Sanitary Law, (3) Vital Statistics, and (4) Medicine in its bearings on Public Health, and the examinations in these subjects are taken at one time. The examination in Sanitation, provided for under

this section, shall include Reports by the candidates on Dwellings, Workshops, Hospitals, and Sanitary Schemes generally.

Candidates for B.Sc. (Public Health) must conform to the Regulations of the General Medical Council for Diplomas in Public Health.

Outline of Subjects of Final Science Examination.

EPIDEMIOLOGY [MEDICINE IN ITS RELATION TO PUBLIC HEALTH].

The Causes of Endemic and Epidemic Diseases, as well as of Epizootics; of the Contagious or Infectious Diseases; and of those incidental to particular trades, or otherwise produced by the surroundings of the patient. Prophylaxis. Immunity. Vaccination against disease. Nature and Value of Vaccines.

SANITATION.

(1.) *Site, Environment, and Construction of Dwellings.*—Influence of Position, Aspect, and Climate; Meteorological and Geological Conditions; Soil and Drainage; Elements of Building Construction.

(2.) *Water Supply.*—Quantity per head; Relative Eligibility of available Sources of Supply; Estimation of yield; Methods of utilising various Sources of Supply; Storage, Subsidence, and Filtration; Distribution—(a) General, (β) Domestic; Causes, Detection, and Treatment of contaminated Supply.

(3.) *Air Supply.*—Quantity and Temperature, with knowledge of use of instruments employed in their Measurement; Causes and Detection of Impurities; Warming and Ventilation; Characteristics and Fitness of various methods in use.

(4.) *Excreta, Refuse, and Sewage.*—Character and Quantity of in (a) Urban, (β) Rural Districts—

A. Collection and Removal from (1) the Dwelling, (2) the Town or Village; Nature, Practical details, and maintenance of the several Methods employed.

B. Disposal: (1) Sanitary, (2) Insanitary methods; Precipitation, Filtration, Irrigation, Discharge; General details of necessary works.

(5.) *General Structural and Mechanical Details of Sanitary Works.*—Character, Fitness, and Qualities of Materials (Brick, Cement, Earthenware, Iron, Lead); Design, setting out, and laying of Sewers; Plumbing and Iron-work.

(6.) *Hospitals.*—Principles of Design and Construction.

(7.) *Infectious and Epidemic Diseases.*—Origin, Modes of Propagation, and Means of Prevention; Epizootics.

(8.) *Disinfectants.*—Selection and Application.

(9.) *Effects of Insanitary Conditions.*—Insufficient house accommodation, Vitiation of Air, Impure Water, Bad or insufficient Food.

(10.) *Unhealthy Occupations*.—Means of mitigating or removing their unhealthiness.

(11.) *Nuisances*.—Urban, Rural, and Domestic.

(12.) *Disposal of the Dead*.—Burial, Cremation.

N.B.—Candidates are required to be able to interpret plans submitted to them, and to illustrate their answers when necessary by sketches.

SANITARY LAW AND VITAL STATISTICS.

1. Sanitary Administration. Laws affecting Factories, Workshops, Mines, Common Lodging-houses, Removal of Refuse, Nuisances, Rivers Pollution, Alkali Works, Burial Grounds, Unwholesome Food, Adulteration of Food and Drugs. Sale of Poisons.

2. Methods of estimating Population. Death, Birth, and Marriage Rates. Mortality as affected by Age, Sex, and Occupation. Case Mortality. Life Tables.

Note.—In making calculations, the candidate will be expected to understand the use of Logarithms, the Slide Rule, and Arithmometer.

VIII. The Board of Studies for the Faculty of Science from time to time, with the approval of the Senatus, determines and announces the character of the instruction to be given in the Laboratory, and fixes the standard of the examinations.

IX. It is competent for the University Court, after consultation with the Senatus, to modify from time to time the provisions as to the work and instruction hereinbefore specified as necessary for graduating in Science in Public Health, in case such modification may be rendered desirable by the development of the Science of Public Health, or by increase of the facilities provided in the said University or elsewhere for the study of any branch of the said Science.

Doctorate of Science.

X. Graduates who have held the degree of B.Sc. in Public Health from the University of Edinburgh for a term of five years may offer themselves for the degree of D.Sc. in Public Health in the said University.¹

XI. Candidates for the degree of D.Sc. in Public Health must present a thesis, or a published memoir or work, to be approved by the Senatus, on the recommendation of the Faculty of Science, and are required to pass an examination in Public Health, and in such of its special departments as the Senatus, with the approval of the University Court, may determine.

Candidates for D.Sc. in Public Health may appear for examination in any one of the departments of knowledge required for the degree of B.Sc. in Public Health. They are required to submit the subject in which they propose to be examined for approval at least six weeks before the date of the examination. The thesis must be lodged on or before 1st February.

¹ See also Regulations for Research Students taking D.Sc., p. 141a.

Theses, or published memoirs or works, must be records of original research undertaken by the candidates, and must be accompanied by a declaration, signed by them, that the work has been done and the theses or memoirs composed by themselves.

General.

XII. Candidates who produce certificates that they have satisfied all the conditions prescribed by this Ordinance, and who have passed the necessary examinations, are entitled to receive the degrees of B.Sc. in Public Health or D.Sc. in Public Health, as the case may be, on payment of the fees required.

XIII. Students who, at the time when these Regulations come into operation, have completed a part of their course of study with a view to graduation in Science in Public Health in the University of Edinburgh, under regulations in force at the time therein, and thereafter complete the course of study and pass the necessary examinations in conformity with such regulations, or with the provisions hereof, may become candidates for the degree of B.Sc. in Public Health.

XIV. The degrees of B.Sc. and D.Sc. in Public Health are in no case conferred on persons who have not complied with the conditions hereinbefore set forth, and are not conferred *honoris causa tantum*.

For University *Diploma in Public Health* (D.P.H.), see under FACULTY OF MEDICINE, p. 653.

GRADUATION IN AGRICULTURE.

REGULATIONS AND CURRICULUM FOR THE DEGREE OF B.SC. IN AGRICULTURE.

N.B.—*Roman numerals indicate Sections of Ordinance No. 22 of the Universities Commissioners.*

I. A degree of Bachelor of Science in Agriculture is conferred by the University of Edinburgh.

Preliminary Examination.

II. See earlier section, pages 87 to 106.

Courses of Instruction.

III. (1) Candidates must, in the course of not less than three academical years (*i.e.*, three Winter Sessions, or two Winter Sessions and three Summer Sessions), attend at least eleven courses of instruction in subjects prescribed for examination under Section VIII. hereof.

(2) It is the duty of the Senatus to determine from time to time which of the said courses are full courses and which are half courses respectively, and also to determine the number of meetings of which such full courses and half courses respectively shall consist, and to report its determination to the University Court for its approval.

IV. (1) Five full courses or their equivalent (counting two half courses as one full course) must be taken in the University of Edinburgh, and must include the course in Agriculture and Rural Economy.

(2) The remainder of the said courses may be taken in other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science in Agriculture: Provided that the fees for attendance at an approved Institution in Edinburgh or under a recognised teacher there must not be less than the fees exigible for the corresponding courses in the University of Edinburgh.

(3) Residence and practical work at a farm is required of each candidate to such an extent and under such regulations as the Senatus, with the approval of the University Court, may from time to time appoint.

[The period of Residence and Practical Work has been fixed at not less than twelve months. Candidates must, before presenting themselves for examination in the subject of Agriculture, produce evidence of having fulfilled this requirement.]

V. The University Court may make regulations to enable candidates, not matriculated students of the University of Edinburgh, availing themselves of the permission to attend lectures at approved Institutions or by recognised teachers in Edinburgh, to obtain, on payment of a fee not exceeding in amount the matriculation fee paid by the students of the University, a right to the use of the Library of the University.

VI. (1) It is the duty of the Professors and Lecturers annually, at the end of each winter session, to submit to the Senatus a scheme specifying what proportion of the courses is to be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Senatus transmits such scheme, with such observations as it may think fit to make thereon, to the University Court for its approval.

(2) It is the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Faculty of Science, for its consideration, a syllabus of the subjects and books proposed for the work of their classes during the next academical year. The Faculty of Science transmits such syllabus, with such observations as it may think fit to make thereon to the Senatus for its approval.

VII. The provisions of the preceding section do not apply to approved institutions or recognised teachers outside Edinburgh; but the University, Court will not grant or continue recognition to any Institutions or teachers unless it is satisfied that their courses of instruction are equivalent to the courses sanctioned in the University of Edinburgh, where such exist.

Subjects of Study.

VIII. The subjects of study are as follows :—

1. Mathematics, or Biology (*i.e.*, Zoology and Botany).
2. Natural Philosophy (Lectures and Laboratory Work).
3. Chemistry, including Practical Chemistry.
4. Agriculture and Rural Economy.
5. Agricultural Chemistry.
6. Geology.
7. Veterinary Hygiene.
8. Agricultural Entomology.
9. Economic Science as applied to Agriculture.
10. A course in one of the following :—(a) Forestry; (b) Experimental Physics; (c) Engineering.
11. Engineering Field Work.

See ORDER OF STUDY AND EXAMINATION, p. 456.

FIRST SCIENCE EXAMINATION.

IX. (1) There is a First Science Examination in the three following subjects—viz. (1) Mathematics, or Biology (*i.e.* Zoology and Botany); (2) Natural Philosophy; (3) Chemistry, including Practical Chemistry.

(2) The examinations in all these subjects is the same as the examination in these subjects for the degree of B.Sc. in Pure Science, as specified in the Regulations therefor.

The following courses in this University qualify for the First Science Examination in Agriculture:—

1. (1) **Mathematics**, as for the degree in Pure Science, or (2) **Biology (Zoology and Botany)**, as for Pure Science (see pp. 422-423).

Note.—In Zoology, Agriculture Students have the option of taking, for their third term's work, the Course on the Zoology of the Domestic Animals, given in the Summer Term.

2. **Natural Philosophy**, as for Pure Science (see p. 423).

3. **Chemistry**, full course, including Practical Work, as for Pure Science (see p. 423).

(3) Candidates may present themselves in any one or more of the subjects of the First Science Examination at any examination held after they have attended a full course in the subject or subjects professed.

FINAL SCIENCE EXAMINATION.

X. (1) There is a Final Science Examination in the remaining subjects (4 to 11 inclusive) specified in Section VIII. hereof.

(2) Candidates may present themselves in any one or more of these subjects at any examination held after they have passed the whole of the subjects comprised in the First Science Examination, and have attended the required courses in the subjects professed.

The following courses qualify for the Final Science Examination in Agriculture:—

1. **Agriculture and Rural Economy**.—Full Course of about 100 Lectures and 10 Field Demonstrations. See also Advanced Agriculture, pp. 236 and 388.

2. **Agricultural Chemistry**.—Full Course, including Lectures and Practical Work, of about 180 hours (Agricultural College).

3. **Geology**.—Winter Course of Lectures, Demonstrations in Laboratory, and Field Demonstrations.

4. **Veterinary Hygiene**.—Course of about 50 Lectures (Agricultural College).

5. **Agricultural Entomology**.—Full Course, including Lectures and Practical Work, of about 120 hours.

6. **Economic Science, as applied to Agriculture**.—Half Course of about 50 Lectures—the Political Economy Class in Arts till Christmas.

7. A course in one of the following:—

(a) **Forestry**.—Full Course of about 80 Lectures, with Field Demonstrations.

(b) **Experimental Physics**.—Full Laboratory Course of 100 hours.

(c) **Engineering**.—Full Course of about 100 hours (Agricultural College).

8. **Engineering Field Work**.—Summer Course—Lectures, Drawing Office, and Field.

See ORDER OF STUDY AND EXAMINATION, page 456.

XII. A candidate for the degree of B.Sc. in Agriculture shall not be deemed to have attended a class as part of the curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XIII. Candidates who produce certificates that they have satisfied all the conditions prescribed by these Regulations, and who have passed the necessary examinations, will be entitled to receive the degree of B.Sc. in Agriculture, on payment of the fees required.

XIV. A student who, at the time when these Regulations came into operation, had completed a part of his course of study with a view to graduation in Science in Agriculture in the University of Edinburgh, under regulations in force at the time therein, and who thereafter completes his course of study and passes the necessary examinations in conformity with such regulations, or with the provisions of these Regulations, may become a candidate for the degree of B.Sc. in Agriculture.

XV. The degree of B.Sc. in Agriculture shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

Outline of Subjects of Final Examination.

See Synopses of Courses, pages 387-397.

1. AGRICULTURE AND RURAL ECONOMY: ITS SCIENTIFIC PRACTICE.

1. *Definition of Agriculture.*—Aid given by the Allied Sciences.
2. *Surface Geology.*—Formation and Classification of Soils—their Physical and Chemical Properties. Importance of Organic Nitrogen. Indications of good or bad Soils—the Methods of Management.
3. *Drainage and Cultivation.*—Practice and Advantages of Drainage—Irrigation—Wet-Warping—Mixing or Top-Dressing—Claying—Marling—Chalking—Liming—Paring and Burning—Clay-Burning. The Effect on Soils of Cultivation and the Growth of Plants.
4. *Implements and Machines of the Farm.*—The Importance of their proper Construction and Careful Management.
5. *Steam Cultivation.*—Its Advantages and Disadvantages—Development of the "Darby" Land Digger. The Farm "Motor."
6. *The Motive Powers Employed on the Farm.*—1st, Man; 2nd, Horse; 3rd, The Mechanical Powers (Water, Wind, Compressed Air, Gas, Oil and Steam)—their Comparative Values and Advantages.
7. *Farm Servants.*—Their Labour and Wages—Day-work and Piece-work. Detailed and total costs of Horse and Hand Labour.
8. *Systems of Farming and the Importance of Rotations.*—Different Rotations and reasons why they are adopted.

9. *Our Farm Crops* (Grain, Root, Forage, and Hay Crops).—Their Selection and Growth; the Garton System of Plant Breeding—Mendel's "Laws of Inheritance"—Prevention of Insect Injuries and Diseases.

10. *Identification of Grasses and other Valuable Pasture Plants*.—Character and Habits of those of Importance—Detection of Adulterations—Regulations necessary to protect the Farmer in buying Seeds.

11. *The Management of Permanent Pasture*.—Proper Methods of making new Pasture—its After-treatment.

12. *Weeds in Pastures* and Means of Destroying them.

13. *Silage and the System of Ensilage*.—Its Advantages, etc.—Its Suitability and Unsuitability according to Locality.

14. *Manures*.—Farm-yard Manure—its proper Mixing, Storing, and Application—its great advantage as a General Manure. Special Manures and so-called Artificial—their Uses, Abuses, and Adulterations—the proper Times and Methods of their Application. The Value and Use of Liquid Manure and Town Sewage.

15. *Buildings and Fences*.—The proper Construction of Fences—the General Arrangement of Farm-Buildings—the best Flooring and Inside Plans and Dimensions of Byres, Cattle-Sheds, Stables, etc.—Covered Yards—Ventilation—Drainage of Houses and Farm-yards.

16. *Live-Stock, embracing Cattle, Pigs, Horses, Sheep*.—The Various Breeds of each, and suitability of some to Local Conditions—"The Principles of Breeding." Feeding and Management—Cost of Feeding—Proper Mixtures of Food to Use. Cost of the Production of a Stone of Beef, Mutton, and Pork, showing the Amount of Profit in each Case.

17. *Dairying in all its Branches*, including the suitability or otherwise of surrounding Conditions—the proper Classes of Dairy Stock to keep, and their Management—the Treatment of Milk, and its Sale or Manufacture into Cheese, Butter, etc.

18. *Feeding Stuffs*.—Suitability of the Common Food Substances to the Different Classes of Farm Stock—The Purchase, Storing, and Administration of the same—their Manurial Residues.

2. AGRICULTURAL CHEMISTRY.

The subjects of examination are detailed in the Lecture Syllabus (see p. 392). There is also a Practical Examination.

3. GEOLOGY.

1. *Dynamical Geology*.—Nature and operation of Geological agents; The Atmosphere, Rain, Terrestrial Waters, Ice, the Sea, Plants and Animals, Volcanoes, Movement of the Earth's Crust.

2. *Mineralogy*.—Physical and Chemical Characters of the more important and typical species in the various mineral groups—more especially Rock-forming Minerals.

3. *Petrography*.—Macroscopic and Microscopic Characters, Composition, Origin, and Distribution of Common Rocks.

4. *Structural Geology*.—Structure of Rock-masses, Bedding, Joints, Cleavage, Foliation, Metamorphism, Faults, Unconformity.

5. *Applied Geology*.—Nature and Origin of Soils and Subsoils ; Draining in connection with Geological Structure ; Mineral substances used as Manures.

4. VETERINARY HYGIENE.

1. The Comparative Osteology (rudimentary) of the Horse, Ox, and Sheep.

2. The Physiology of Dentition in Horse, Ox, Sheep, and Pig, more especially as indicative of the Age of the Animal.

3. The Physiology of Gestation ; the Diseases incidental to the pregnant state, and also those consequent to the act of parturition.

4. Description of the Digestive Organs of the Horse, Ox, and Sheep (separately), also their Physiology, and most ordinary Diseases.

5. Contagious and other Diseases of Farm Stock. Prevention and Treatment of Diseases.

5. AGRICULTURAL ENTOMOLOGY.

The subjects of examination are the subjects detailed in the Lecture Syllabus (see p. 394).

6. ECONOMIC SCIENCE.

See Syllabus in Arts : First Half of Course. See also special books prescribed, viz.—Taylor's *Agricultural Economics*, Nicholson's *Rents, Wages, and Profits in Agriculture*.

7. (a) FORESTRY.

The subjects included in Course prescribed on p. 398.

7. (b) EXPERIMENTAL PHYSICS.

The Measurement of Physical Constants, such as—Specific Gravity, Specific Heat, Conductivity, Dilatation, Refractive Index, Magnetic and Electric Quantities, etc.

7. (c) ENGINEERING.

1. *Mechanics*.—(a) Principles of Statics ; couples ; moments of forces ; parallel and inclined forces ; centre of gravity ; moments of inertia ; friction. (b) Principles of Kinematics and Kinetics ; Newton's laws of motion ; conservation and transformation of energy.

2. *Strength and Properties of Structural Materials*, including their fitness and adaptability.

3. *Strength and Stability of Structures*.—General knowledge of the design, construction, and maintenance of Roads, Roofs, Bridges, Embankments, Retaining Walls, Aqueducts, and General Buildings.

4. *Hydraulics*.—The laws governing the flow of Water in open and closed channels, and its discharge through orifices ; Systems of Drainage and Irrigation ; Pumps, etc.

5. *Mechanism and Machinery*.—General principles and means of transmission, conversion, and modification of motion; general millwright work, with special reference to the machines ordinarily employed for agricultural purposes.

6. *Prime Movers*.—A knowledge of the sources and modes of estimating power; the Steam Engine; Pneumatic Machines; Hydraulic Motors, Water-wheels, Turbines, etc.

8. ENGINEERING FIELD WORK.

Surveying, with special reference to Estate and Parish Surveying, Levelling, Gauging of Streams and Rivers, Plotting of Surveys and Sections, Setting out of Work, and Calculation of Quantities.

ORDER OF STUDY AND EXAMINATION FOR THE DEGREE OF B.SC. IN THE DEPARTMENT OF AGRICULTURE.

FIRST YEAR.

Autumn Term—

	Days.	Hours.
Chemistry Lectures	Mon., Wed., Fri.	10-11
Natural Philosophy Lectures	Mon., Wed., Fri.	11-12
Zoology (Lectures and Practical) (or Second Year)	Mon., Wed., Fri.	1.30-3
Botany Lectures	Tues., Thur.	2-3
Botany (Practical)	Tues., Thur.	3-5

Chemical Laboratory, and Natural Philosophy Laboratory, as also
Tutorial hours, to be arranged personally.

Spring Term—

Chemistry Lectures	Mon., Wed., Fri.	10-11
Natural Philosophy Lectures	Mon., Wed., Fri.	11-12
Zoology (Lectures and Practical) (or Second Year)	Mon., Wed., Fri.	1.30-3
Botany Lectures	Tues., Thur.	2-3
Botany (Practical)	Tues., Thur.	3-5

Laboratory Work, etc.—See above.

Summer Term—

Chemistry Lectures	Mon., Wed., Fri.	10-11
Natural Philosophy (probably Laboratory Work)		
Invertebrate Zoology	Mon., Wed., Fri.	2-5
Botany Lectures	Tues., Thur.	2-3
Botany (Practical)	Tues., Thur.	3-5

Laboratory Work, etc.—See above.

Examinations in Chemistry, Natural Philosophy, Zoology, and Botany.

SECOND YEAR*Autumn Term—*

	Days.	Hours.
Agriculture	Daily	9-10
Do. Colonial and Indian (Garton) ¹	Thur.	12-1
Agricultural and Horticultural Entomology	Mon., Wed., Fri.	2-4
Geology	Mon., Wed., Fri.	12-1
Forestry	Daily	10-11
or Experimental Physics	Times to be arranged.	
or Engineering (Agricultural College)	{ Tues., Fri.	10-11
	{ Wed., 11-1 and 1.30-4	

Spring Term—

Agriculture	Daily	9-10
Agricultural and Horticultural Entomology	Mon., Wed., Fri.	2-4
Geology	Mon., Wed., Fri.	12-1
Forestry	Daily	10-11
or Experimental Physics	Times to be arranged.	
or Engineering (Agricultural College)	{ Tues., Fri.	10-11
	{ Wed., 11-1 and 1.30-4	

Examinations in all subjects attended, except Agriculture.

Summer Term—

Engineering Field Work	Mon., Wed., Fri.	10-4
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Examinations in Field Work.

THIRD YEAR.*Autumn Term—*

Advanced Agriculture	{ Mon.	3-4
	{ Tues.	11-12
	{ Fri.	12-1 and 3-4
Do. Colonial and Indian (Garton) ¹	Thur.	12-1
Agricultural Chemistry (Agric. College)	{ Mon., Fri.	2-3
	{ Tues.	12-1
Prac. Agric. Chemistry (Agric. College)	Tues., Thur.	2-5
Veterinary Hygiene (Agricultural College)	Mon., Thur., Fri.	11-12
Economic Science (Political Economy)	Daily	9-10

Examination in Economic Science (January).

Spring Term—

Advanced Agriculture	{ Mon.	3-4
	{ Tues.	11-12
	{ Fri.	12-1 and 3-4
Agricultural Chemistry (Agric. College)	{ Mon., Fri.	2-3
	{ Tues.	12-1
Prac. Agric. Chemistry (Agric. College)	Tues., Thur.	2-5
Veterinary Hygiene (Agricultural College)	Mon., Thur., Fri.	11-12
Law of Landlord and Tenant (Course held in alternate years)	Ten Lectures	9-10

Examination in all remaining subjects.

(See Regulation as to Residence and Practical Work on a Farm, p. 450.)

DEGREE CONFERRED IN MARCH.

¹ Not compulsory, but essential.

GRADUATION IN FORESTRY.

REGULATIONS AND CURRICULUM FOR THE DEGREE OF B.SC. IN FORESTRY.

N.B.—*Roman numerals indicate Sections of Ordinance No. 6 of the University Court of the University of Edinburgh.*

I. A degree of Bachelor of Science in Forestry is conferred by the University of Edinburgh.

Preliminary Examination.

II. See earlier section, pages 87 to 106.

Courses of Instruction.

III. (1) Candidates must, in the course of not less than three academical years, within the meaning of Ordinance No. 11 [General No. 6.—Regulations for Degrees in Arts], Section I., Sub-section (1), attend at least ten courses of instruction, in subjects prescribed for examination under Section VIII. of this Ordinance.

(2) It shall be the duty of the Senatus to determine from time to time which of the said courses shall be full courses and which shall be half-courses respectively, and also to determine the number of meetings of which such full courses and half-courses respectively shall consist, and to report its determination to the University Court for approval.

IV. (1) Five full courses, or their equivalent (counting two half-courses as one full course) must be taken in the University of Edinburgh, and must include the courses in Forestry.

(2) The remainder of the said courses may be taken in other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science in Forestry: provided that the fees for attendance at an approved Institution in Edinburgh, or under a recognised teacher there, shall not be less than the fees exigible for the corresponding courses in the University of Edinburgh.

(3) Residence and practical work in forests shall be required of each candidate to such an extent and under such regulations as the Senatus, with the approval of the University Court, may from time to time appoint. See ORDER OF STUDY AND EXAMINATION, p. 462.

V. The University Court may make regulations to enable candidates, not matriculated students of the University of Edinburgh, availing them-

selves of the permission to attend lectures at approved Institutions or by recognised teachers in Edinburgh, to obtain, on payment of a fee not exceeding in amount the matriculation fee paid by students of the University, a right to the use of the Library of the University.

VI. (1) It shall be the duty of the Professors and Lecturers annually, at the end of each winter session, to submit to the Senatus (through the proper Board of Studies and the Faculty of Science) a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Senatus shall transmit such scheme, with such observations as they may think fit to make thereon, to the University Court for approval.

(2) It shall be the duty of the Professors and Lecturers annually, at the end of each winter session, to submit to the Faculty of Science (through the proper Board of Studies) a syllabus of the subjects and books proposed for the work of their classes during the next academical year. The Faculty of Science shall transmit such syllabus, with such observations as they may think fit to make thereon, to the Senatus for approval.

VII. The provisions of the immediately preceding section shall not apply to approved Institutions or recognised teachers outside Edinburgh; but the University Court shall not grant or continue recognition to any Institutions or teachers unless they shall be satisfied that the courses of instruction are equivalent to the courses sanctioned in the University of Edinburgh where such exist.

Subjects of Study.

VIII. The subjects of study shall be as follows :—

1. Zoology.
2. Botany.
3. Natural Philosophy (Lectures and Laboratory Work).
4. Chemistry, including Elementary Organic Chemistry.
5. Forest Botany, including Forest Mycology.
6. Agricultural Chemistry, including the Chemistry of Soils.
7. Geology.
8. Forest Zoology.
9. Forestry, theoretical and practical, in all its branches (three Courses—Introductory, Intermediate, and Advanced).
10. Elementary Engineering.¹
11. Geometrical Drawing and Surveying.¹

FIRST SCIENCE EXAMINATION.

IX. (1) There shall be a First Science Examination in the four following subjects, viz. (1) Zoology; (2) Botany; (3) Natural Philosophy; (4) Chemistry.

¹ Under the Ordinance these two subjects count as one "Course."

(2) The examination in all these subjects shall be of the same standard as the First Science Examination in these subjects for the degree of Bachelor of Science in Pure Science.

(3) Candidates may present themselves in any one or more of the subjects of the First Science Examination at any examination held after they have attended a full course in the subject or subjects professed.

For Qualifying Courses and Subjects of Examination, see under PURE SCIENCE, pages 422 to 425. See also ORDER OF STUDY AND EXAMINATION, page 462.

FINAL SCIENCE EXAMINATION.

X. (1) There shall be a Final Science Examination in the remaining subjects (5 to 11 inclusive) specified in Section VIII. hereof.

(2) Candidates may present themselves in any one or more of these subjects at any examination held after they have passed the whole of the subjects comprised in the First Science Examination, and have attended the required courses in the subjects professed.

Outline of Subjects of Final Examination.

See Synopses of Courses, pages 398-406.

See also ORDER OF STUDY AND EXAMINATION, page 462.

FORESTRY.

Intermediate Course.

The Subjects of Examination are those detailed in the Lecture Syllabus (see p. 399), viz. :—

The Foundations of Silviculture.
Formation and Regeneration of Woods.
Tending of Woods.
Silvicultural Notes on Forest Trees.
Forest Protection.
Mensuration.
Practical Work.

Advanced Course.

The Subjects of Examination are those detailed in the Lecture Syllabus (see p. 400), viz. :—

Valuation.
Management.
Working Plans.
Forest Administration.
Utilisation.
Practical Course.

FOREST BOTANY.

The vegetation and flora of forests: their relation to edaphic and atmospheric conditions.

The characteristic organographical (including anatomy) and physiological features of forest trees, native and cultivated, in Great Britain, both in their mature and their seedling stage; the systematic position of these trees.

The structure of the more important timbers.

FOREST MYCOLOGY.

The characters of the principal classes of the Fungi and Mycetozoa, with special reference to those forms causing diseases of trees. Description of the more important tree diseases, and methods of treatment and prevention.

FOREST CHEMISTRY.

The subjects of examination are detailed in the Lecture Syllabus (see p. 403). There is also a Practical Examination.

GEOLOGY.

See under GRADUATION IN AGRICULTURE.

FOREST ZOOLOGY.

The Subjects of Examination are the subjects detailed in the Lecture Syllabus (see p. 404).

ENGINEERING AND DRAWING.**Forest Engineering.**

The Subjects of Examination are the subjects detailed in the Lecture Syllabus (see p. 405).

Engineering Drawing.

The Subjects of Examination are the subjects detailed in the Lecture Syllabus (see p. 406).

Surveying.

The Subjects of Examination are the subjects detailed in the Lecture Syllabus (see p. 406).

General.

XI. A candidate for the degree of Bachelor of Science in Forestry shall not be deemed to have attended a class as part of the curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XII. Candidates who produce certificates that they have satisfied all the conditions prescribed by this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the degree of Bachelor of Science in Forestry, on payment of the fees required.

XIII. The fee for admission to examination for the degree of Bachelor of Science in Forestry shall be six guineas, and the proportion of that sum to be paid by a candidate at each division of the examination shall be regulated from time to time by the University Court.

XIV. If a candidate is rejected in one or more subjects in any division of the examination, the University Court shall have power to charge a fee for re-admission to examination.

XV. The degree of Bachelor of Science in Forestry shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

ORDER OF STUDY AND EXAMINATION FOR THE DEGREE OF B.SC. IN THE DEPARTMENT OF FORESTRY.

FIRST YEAR.

Autumn Term—

	Days.	Hours.
Chemistry Lectures	Mon., Wed., Fri.	10-11
Natural Philosophy Lectures	Mon., Wed., Fri.	11-12
Zoology (Lectures and Practical)	Mon., Wed., Fri.	1.30-3
Botany Lectures	Tues., Thur.	2-3
Botany (Practical)	Tues., Thur.	3-5

Chemical Laboratory and Natural Philosophy Laboratory, as also Tutorial hours, to be arranged personally.

Spring Term—

Chemistry Lectures	Mon., Wed., Fri.	10-11
Natural Philosophy Lectures	Mon., Wed., Fri.	11-12
Zoology (Lectures and Practical)	Mon., Wed., Fri.	1.30-3
Botany Lectures	Tues., Thur.	2-3
Botany (Practical)	Tues., Thur.	3-5

Laboratory Work, etc.—See above.

<i>Summer Term—</i>	Days.	Hours.
Chemistry Lectures	Mon., Wed., Fri.	10-11
Natural Philosophy (probably Laboratory Work).		
Zoology (Invertebrate)	Mon., Wed., Fri.	2-5
Botany Lectures	Tues., Thur.	2-3
Botany (Practical)	Tues., Thur.	3-5
Laboratory Work, etc.—See above.		

Examinations in Chemistry, Natural Philosophy, Zoology, and Botany.

SECOND YEAR.

<i>Autumn Term—</i>		
Introductory Forestry	Daily	10-11
Forest Engineering (with Drawing)	Tu., Wed., Thur.	11-1
Forest Botany (including Practical)	Mon., Wed., Fri.	2-5
Forest Mycology (including Practical)	Tues., Thur.	2-5
Geology	Mon., Wed., Fri.	12-1

Examination in Forest Engineering.

<i>Spring Term—</i>		
Introductory Forestry	Daily	10-11
Intermediate Forestry	Daily	11-1
Forest Botany (including Practical)	Mon., Wed., Fri.	2-5
Forest Mycology (including Practical)	Tues.	2-5
Geology	Mon., Wed., Fri.	12-1

Examinations in Forest Botany, Forest Mycology, Geology, and Intermediate Forestry (Silviculture).

A Practical Forestry Course is taken during the Easter Vacation.

<i>Summer Term—</i>		
Intermediate Forestry	{ Tu., Wed., Thur.	10-11
	{ Mon., Fri.,	9-10
Practical Forestry	Tues., Thur.	11-4
Indian Forest Trees	Tu., Wed., Thur.	8-9.30
Surveying	Mon., Wed., Fri.	10-4

Examinations in Surveying; and in Indian Forest Trees, if included in Curriculum. (The Examination in the remaining sections of Intermediate Forestry will be in October.)

A Practical Forestry Course, in Scottish forests, is taken during the Summer Vacation.

THIRD YEAR.

<i>Autumn Term—</i>		
Advanced Forestry	{ Daily (except Tu.)	9-1
	{ Tues.	9-12
Forest Chemistry (Agric. Coll.)	{ Mon., Fri.	2-3
	{ Tues.	12-1
Practical Forest Chemistry (Agric. Coll.)	Tues., Thur.	2-5
Forest Zoology (including Practical)	{ Mon., Fri.	3-5
	{ Wed.	2-4

Spring Term—

	Days.	Hours
Advanced Forestry	Daily	9-1
Forest Chemistry (Agric. Coll.)	{ Mon., Fri.	2-3
	{ Tues.	12-1
Practical Forest Chemistry (Agric. Coll.)	Tues., Thur.	2-5
Forest Zoology (including Practical)	{ Mon., Fri.	3-5
	{ Wed.	2-4

Examination in Advanced Forestry, Forest Chemistry, and Forest Zoology.

Summer Term—

This Term is devoted to Practical Forestry Work.

DEGREE CONFERRED IN JULY.

Qualifications of Candidates for Probationerships in the Indian Forest Service.

Students of Forestry of the University of Edinburgh intending to qualify as Candidates for Probationerships in the Indian Forest Service are required—

1. To hold the Degree of Bachelor of Science in Forestry of the University.
2. To have also passed a public examination of the University of an Honours standard in some branch of Natural Science.

The public examination of the University which enables students to satisfy the second requirement is the Final Examination in some branch of Natural Science embraced in the Degree in Pure Science.

TEMPORARY REGULATIONS FOR A DIPLOMA AND A CERTIFICATE IN FORESTRY.

DIPLOMA IN FORESTRY.

- (1) A Diploma in Forestry will be awarded on the completion of a satisfactory course of instruction in Forestry during two academical years, if the course commences at the beginning of the Autumn Term of any year.

Note.—A student may begin his course at the beginning of the Summer Term of any year, but in that case he will have to attend for two complete academical years in addition to the Summer Term in which he began his course.

- (2) The Diploma will be open only to Officers and others who have served in H.M. Forces during the present War.

(3) The arrangements in connection with the Diploma will only be in force during the continuance of the War, and for a period of five years after the conclusion of peace.

(4) Before Diploma students can enter upon the course, they must produce evidence of a good general education.

(5) Students who have obtained the Diploma in Forestry will be eligible to proceed at a later period to the Degree of B.Sc. in Forestry, provided they attend the remaining courses necessary for such Degree, and pass the qualifying examinations. This can be done in one additional academical year. Such students will have to comply with all the ordinary regulations in regard to the Preliminary Examination.

(6) The following course of study is prescribed for the Diploma in Forestry :—

First Year.

Chemistry, Lectures and Practical Work (Autumn and Spring Terms).

Botany, Lectures and Practical Work (Autumn and Spring Terms).

Forest Zoology (Autumn and Spring Terms).

Introductory Forestry (Autumn and Spring Terms).

Intermediate Forestry (Spring and Summer Terms).

Surveying and Levelling (Summer Term).

Geology (Autumn and Spring Terms).

Practical Forestry (Easter and Summer Vacations).

Examinations will be held, at the end of each course, in Chemistry, Botany, Forest Zoology, Intermediate Forestry, Surveying, and Geology.

Second Year.

Forest Chemistry, including Laboratory Work (Autumn and Spring Terms).

Forest Engineering (Autumn Term).

Forest Botany, including Forest Mycology (Autumn and Spring Terms).

Advanced Forestry (Autumn and Spring Terms).

Practical Forestry Work (Summer Term).

Examinations will be held, at the end of each course, in Forest Chemistry, Forest Engineering, Forest Botany, Forest Mycology, and Advanced Forestry.

(7) The Diploma will be awarded, at the close of the second complete academical year, to those candidates who have satisfied the Examiners in the various subjects.

(8) Candidates for the Diploma who begin their course in October will be required to pay in each year (1) the matriculation fee of one guinea, and (2) an inclusive fee of twenty guineas. These are payable before attendance on classes in each year begins. They will also pay, on entry for examination, a fee of two guineas each year.

Note.—Candidates who begin their course in the Summer Term will have to pay a matriculation fee of 10s. 6d. for that term, together with the normal fee for the class or classes attended in that term. The latter fee will be deducted from the first instalment of the inclusive fee.

CERTIFICATE IN FORESTRY.

(1) A Certificate in Forestry will be awarded on the completion of a satisfactory course of instruction in Forestry, extending over one academical year or its equivalent.

(2) The Certificate will be open only to men who have served in H.M. Forces during the present War, and who are specially recommended as suitable candidates for such a course.

(3) The issue of the Certificate will take place only during the continuance of the War, and during a period of five years after the conclusion of peace.

(4) The following course of study is prescribed for the Certificate :—

1. Introductory Forestry.
2. Intermediate Forestry.
3. Forest Engineering.
4. Surveying.
5. Special Certificate Course in Elementary Valuation and Utilisation (Summer Term).

6. Practical Courses in Forestry, to be taken during the Easter Vacation, the Summer Term, and the Summer Vacation.

Note.—If any candidate has had adequate preliminary training in Botany, Zoology, or Chemistry, he may, in addition to the above courses, take extra courses, such as Forest Botany, Forest Chemistry, Forest Zoology, and Geology.

(5) Examinations in the various subjects will be held at the end of each course, and the Certificate will be awarded by the University to those one year students who have satisfied the Examiners in the various subjects.

(6) Candidates for the Certificate will be required to pay (1) the matriculation fee of one guinea, and (2) an inclusive fee of fifteen guineas. These are payable before attendance on classes begins. They will also pay, on entry for examination, a fee of two guineas.

Note.—Any candidate who takes an extra course outside the prescribed course of study will be required to pay, in addition to the inclusive fee, the normal class fee for the extra course attended.

Candidates who begin their course in the Spring Term will have to pay an additional matriculation fee of one guinea, and those who begin in the Summer Term an additional fee of half a guinea.

GRADUATION IN VETERINARY SCIENCE.

REGULATIONS AND CURRICULUM FOR THE DEGREES OF B.SC. AND D.SC. IN VETERINARY SCIENCE.

N.B.—*Roman numerals indicate Sections of Ordinance No. 13 of the University Court of the University of Edinburgh.*

I. Two degrees in Veterinary Science are conferred by the University of Edinburgh, viz., Bachelor of Science in Veterinary Science and Doctor of Science in Veterinary Science.

II. Regulations shall from time to time be prescribed by the Senatus, with the approval of the University Court, for graduation in Veterinary Science, and these shall be administered by the Faculty of Science.

Preliminary Examination.

III. A candidate for the degree of Bachelor of Science in Veterinary Science must have passed the Preliminary Examination prescribed for degrees in Science. [See earlier Section, pages 87 to 106.]

Professional Education.

IV. A candidate shall be admitted to the degree of Bachelor of Science in Veterinary Science only after he has fulfilled the following conditions:—

1. He must have been engaged in Veterinary study for not less than four academic years.
2. He must be a member of the Royal College of Veterinary Surgeons, or hold a Veterinary Diploma granted in a British possession or foreign country recognised by the said Royal College, and entitling him to be registered in the Register of Veterinary Surgeons.
3. During his curriculum he must have attended, in addition to the courses prescribed for the Diploma of Membership of the Royal College of Veterinary Surgeons, a course or courses of instruction on each of the following subjects:—

Practical Chemistry.—A course of not less than 30 hours.

Physics.—A course of not less than 50 hours, including lectures and practical work.

Advanced or Applied Botany and Zoology.—A course of not less than 25 hours in each subject, including lectures and practical work.

Anatomy of Domesticated Animals (including Embryology and Practical Anatomy).—A course of not less than 80 hours.

Histology.—A course of not less than 40 meetings of the class.

Experimental Physiology and Chemical Physiology.—A course of not less than 10 weeks in each subject.

Pathological Bacteriology.—A course of not less than 40 meetings of the class, including lectures and practical work.

Protozoology and Entomology.—A course of not less than 20 meetings of the class.

Sanitary Science and Veterinary Hygiene.—A course or courses of not less than 50 hours of practical work.

Genetics (Heredity and the Principles of Breeding).—A course of not less than 20 lectures.

The Senatus, with the approval of the University Court, shall determine from time to time the nature, range, duration, and the number of meetings of each course of instruction, and the form of the class certificate, and shall have power to make such alterations in the subjects of instruction and in the number of the courses as may be considered necessary for the improvement of Veterinary education.

Qualifying Courses.

For Synopses of Courses, see pages 406 to 410. See also
CALENDAR OF THE ROYAL (DICK) VETERINARY COLLEGE.

Practical Chemistry.—Work in addition to that required for the Veterinary Diploma, viz.:—Preparation of Pure Salts, Determination of Equivalents, Use of Balance, Further Exercises in Volumetric Analysis, Tests for the common Organic Elements and Compounds (Veterinary College).

Physics.—Course in Physics for Students of Medicine.

Botany.—Special Practical Course in Mycology and other matters bearing upon Veterinary Science: Summer Term.

Zoology.—Special Course on the Zoology of Domestic Animals: Summer Term.

Anatomy of Domesticated Animals (Lectures and Dissection).—Work in addition to that required for the Veterinary Diploma, viz.:—The Anatomy of the Dog, and the Embryology of the Domestic Animals (Veterinary College).

Histology.—Work, entirely practical, in addition to that required for the Veterinary Diploma, viz.:—Further methods of Technique, and their application (Veterinary College).

Experimental Physiology and Chemical Physiology.—Courses in these subjects for Students of Medicine.

Pathological Bacteriology.—Senior Course in Bacteriology, and additional work specially related to Veterinary Science.

Protozoology and Entomology.—The Course for the Diploma in Tropical Medicine and Hygiene, particularly those sections of the work which bear closely upon Veterinary Science.

Sanitary Science and Veterinary Hygiene.—Special Course—Lectures and Practical Work : Spring Term.

Genetics.—Course of 25 Lectures : Spring Term.

V. Attendance at the Royal (Dick) Veterinary College, Edinburgh, shall, subject to the provisions of this Ordinance, qualify, *pro tanto*, for admission to the University examinations for the degrees in Veterinary Science. The University Court shall, after consultation with the Senatus, have power to determine whether attendance at other Veterinary Colleges, and on courses of instruction in such institutions or under such teachers as may be recognised by the University Court as qualifying for admission to examination for degrees in Medicine or in Science, shall be recognised for admission to the University Examinations for Veterinary degrees.

VI. One year of study must be spent in the University of Edinburgh, and the University Court shall, after consultation with the Senatus, determine, from time to time, for purposes of graduation, the proportion of the courses of instruction to be taken in the University and the proportion to be taken in the Royal (Dick) Veterinary College, or in any other Veterinary College or any institution, or under any teacher recognised as above provided.

VII. Students attending at the Royal (Dick) Veterinary College, or at any other College or institution or under any teacher in Edinburgh recognised for the purpose of this Ordinance, with a view to graduation, shall enrol their names in a book to be kept in the University for that purpose, paying a fee of the same amount as the Matriculation Fee paid by the students of the University, and having in respect of such payment a right to the use of the Library of the University; but the University Court shall have power to allow any such student, who at any period in his Veterinary course determines to present himself for examination for the University degrees, and who has otherwise fulfilled the necessary conditions, to present himself, provided he shall have paid such matriculation fees as would have been exigible from him had he commenced his studies with a view to graduation.

Professional Examinations for Degree of Bachelor of Science in Veterinary Science.

VIII. The examination for the degree of Bachelor of Science in Veterinary Science shall consist of three divisions.

The University Court shall have power, in consultation with the Senatus, to alter the number of divisions and the subjects of examination in each division: also, on the Senatus being satisfied with the standard of the examinations, to recognise and accept a proportion of the examinations in the subjects required by this Ordinance passed by the candidate in a University or Veterinary College of the United Kingdom legally entitled to conduct such examinations, provided he has duly attended a recognised course of instruction in each of the subjects on which he has thus passed.

Each candidate shall be examined both in writing and orally, and also practically where the nature of the subject admits.

The subjects of examination in the First division shall be—Chemistry, Physics, Botany, and Zoology.

In the Second division—Anatomy (including Embryology and Histology) and Physiology.

In the Third division—Pathology (including Bacteriology, Protozoology, and Entomology), Genetics, and Sanitary Science and Veterinary Hygiene.

The Examination in each subject will deal with the matters embraced in the Synopsis of the Course of Instruction in that subject, as given in the CALENDAR. See also "Qualifying Courses," page 469.

Note.—The Examination in Zoology will include questions on the skeletons of the Domestic Animals.

IX. Candidates may be admitted to an examination in all or any two or more of the subjects comprised in the First division on the production of the required certificates of attendance in each of the said subjects.

X. Candidates may be admitted to examination in one or both of the subjects of the Second division after having passed in all the subjects of the First division and on the production of the required certificates of attendance in each of the said subjects.

XI. Candidates who have passed in all the subjects included in the preceding divisions may be admitted to the Third or Final examination when they have completed four years of study, on the production of the required certificates of attendance in each of the said subjects.

XII. The examiners for degrees shall be selected by the University Court from the professors and lecturers in the University, whose courses of instruction qualify for the degree of Bachelor of Science in Veterinary Science, together with such additional examiners, to be appointed by the University Court, as the Court shall deem necessary.

XIII. If a candidate fail in one or more of the subjects of examination in any of the divisions, he shall not be admitted to re-examination until he has pursued his studies for such time, and subject to such conditions, as the Faculty of Science may prescribe.

XIV. Each candidate, when he has completed the Final examination, and before he can graduate, must deliver to the Secretary to the Senatus, or other official appointed for the purpose, a declaration in his own handwriting that he is 21 years of age or upwards.

XV. The fee for admission to each division of the examination for the degree of Bachelor of Science in Veterinary Science shall be such sum as the University Court may from time to time determine. See page 96.

XVI. If a candidate is rejected in one or more subjects in any division of the examination, the Court shall have power to charge a fee for re-admission to examination. See page 473.

XVII. Each candidate, before being admitted to examination in any subject or group of subjects, shall, if not a matriculated student for the academic year in which the examination takes place, pay a fee not exceeding the Matriculation Fee.

Degree of Doctor of Science in Veterinary Science.

XVIII. Graduates who have held the degree of Bachelor of Science in Veterinary Science from the University of Edinburgh for a term of three years, may offer themselves for the degree of Doctor of Science in Veterinary Science.

If not a matriculated student for the academic year in which the examination takes place, the candidate must pay a fee not exceeding the Matriculation Fee.

XIX. A candidate for the degree of Doctor of Science in Veterinary Science shall present a thesis, or a published memoir or work, to be approved by the Senatus on the recommendation of the Faculty of Science, on a subject bearing on Veterinary Science or Practice. The thesis shall be a record of original research undertaken by the candidate, and shall be accompanied by a declaration, signed by him, that the work has been done, and the thesis composed by himself.

XX. The Senatus shall appoint such professors and lecturers as it may think suitable to report on the thesis submitted for the degree of Doctor of Science, and the University Court shall, after consultation with the Senatus, appoint one or more additional examiners to act along with them. Such additional examiner shall be a person of recognised eminence in the subject of the thesis, memoir, or work which is to be submitted for approval.

XXI. The fee for admission to the examination for the degree of Doctor of Science in Veterinary Science shall be such sum as the University Court may from time to time determine. See page 96.

XXII. If a candidate is rejected, the Court shall have power to charge a fee for re-admission to examination. See page 473.

FEES FOR DEGREES OF B.SC. AND D.SC.

Pure Science and Engineering—

First Science Examination	£3 3 0
(or for each subject, £1, 1s.)	
Final Science Examination	3 3 0
Doctorate of Science	10 10 0

Public Health—

First Science Examination	£3 3 0
Final Science Examination	3 3 0
Doctorate of Science	10 10 0

Agriculture and Forestry—

First Science Examination	£3 3 0
(or for each subject, £1, 1s.)	
Final Science Examination	3 3 0

Veterinary Science—

First Division Examination	£2 2 0
(or for any group of subjects less than the whole Division, £1, 1s.)	
Second Division Examination	2 2 0
(or for each subject, £1, 1s.)	
Third Division	2 2 0
Doctorate of Science	10 10 0

Candidates for the degree of B.Sc. who fail to pass pay a fee of 10s. 6d. for re-examination in each subject; and candidates for D.Sc. pay a fee of £5, 5s. for each re-examination.

DEGREE EXAMINATIONS, ETC.

When names are not entered and fees paid, or a pass to the examination obtained where the fee has been previously paid, on or before the stated dates, an additional or late-entry fee of 10s. must be paid before the candidate can be admitted to examination. This fee will not be received after twelve o'clock of the last day but one preceding the examination for which the candidate desires to appear, without the express permission of the Dean of his Faculty and the subsequent sanction of the Senatus. A candidate must enter his name and pay the fee, or, when the fee has been previously paid, obtain a pass, for each periodical examination at which he desires to appear.¹

If, after payment of the fee, a candidate withdraws or fails to be present at the examination, the fee will not be repaid, but the candidate will be allowed to enter on one subsequent occasion for examination in the same subject, without payment of any additional fee. A new form must in this case be filled up by the stated date.

Class Certificates must be shown before the day of examination. When the candidate has exhibited the Certificates, the clerk will stamp on the receipt for the fee the words, "CERTIFICATES EXAMINED," which entitles the candidate to admission to the Examination Room.

Candidates for examination or for graduation must be Matriculated Students of the Academic year.

The fees for Matriculation, Examinations for Degrees, and Registration of Graduates as Members of the General Council, are payable at the Matriculation Office, University. Candidates who cannot pay the fees personally, should transmit them to JAS. DOWIE, University, Edinburgh, by *Money Orders* or *Postal Orders*, or by *Bank Drafts*, crossed "*Union Bank of Scotland (Hunter Square Branch), Edinburgh.*"

ENTRY FOR GRADUATION.

Every candidate for graduation must enter his name and pay the fee of £1 for Registration as a Member of the General Council (unless already

¹ On entering for the Final Science Examination, candidates who take Natural Philosophy on the higher standard must state in which of the subjects of the second stage they intend to present themselves.

registered). This should be done as soon as possible after examination results have been intimated; at latest, it must be *by 4 o'clock on the last day but one preceding the Graduation.*

Degrees are conferred by the Chancellor or the Vice-Chancellor of the University. They are not conferred *in absentia*, except on very special cause shown. Candidates must appear in Academic costume, with the appropriate hood. (See "Academic Costume," p. 38.)

GRADUATION CEREMONIALS.—Saturday, 25th Oct., and Friday, 19th Dec., 1919; Friday, 26th March, and Thursday, 8th July, 1920.

TIME-TABLES FOR SCIENCE EXAMINATIONS, 1919-1920.

First Science Examination.

(In all Departments.)

Date.		Subject.	Hours.
1919.			
Sept. 24	Wed	Entries to be made on this date (office hours, 10 to 1).	
Oct. 1	Wed.	Mathematics	12-2
		Mathematics (Engineering) (1st year) .	3-5
" 3	Fri.	Botany	12-3
		Botany (Veterinary Science)	10-12
		Zoology	9-12
		Zoology (Veterinary Science)	2-4.30
" 6	Mon.	Mathematics (Engineering) (2nd year) .	2-5
" 7	Tues.	Chemistry	9-12
		Natural Philosophy	10-12
" 8	Wed.	Natural Philosophy	2-4
		Natural Philosophy	9-11
1920.			
March 3	Wed.	Entries to be made from 28th February to this date (office hours, 10 to 4).	
" 12	Fri.	Laboratory Work (Public Health)	9-11
		Physics (Public Health)	12-2
		Geology (Public Health)	3-5
" 13	Sat.	Practical Work in Public Health Laboratory begins.	
		Physics (Veterinary Science)	2-4

Date.		Subject.	Hours.
1920.			
June 3	Thur.	Entries to be made from 31st May to this date.	
" 22	Tues.	Natural Philosophy	12-2
" 23	Wed.	Mathematics	12-2
" 24	Thur.	Mathematics (Engineering) (1st year)	12-2
" 25	Fri.	Natural Philosophy	9-11
" 26	Sat.	Mathematics	12-2
" 28	Mon.	Mathematics (Engineering) (1st year)	12-3
" 29	Tues.	" (2nd year)	9-12
" 29	Tues.	Physics (Public Health)	12-2
" 29	Tues.	Laboratory Work (Public Health)	9-11
" 29	Tues.	Chemistry	9-12
" 29	Tues.	Botany	9-11
" 29	Tues.	Botany (Veterinary Science)	2-5
" 29	Tues.	Zoology	3-5.30
" 29	Tues.	Zoology (Veterinary Science)	12-2
July 1	Thur.	Physics (Veterinary Science)	12-2

Final Science Examination.

PURE SCIENCE.

(Practical Examinations at times to be arranged.)

Date.		Subject.	Hours.
1919.			
Dec. 1	Mon.	Entries to be made on this date.	
" 8	Mon.	Geology (Intermediate)	9-12
" 9	Tues.	Chemistry (Intermediate)	9-12
" 10	Wed.	Astronomy (Intermed.) { (at University)	9-12
" 11	Thur.	" { (at Observatory)	2-5
" 11	Thur.	Nat. Philosophy (Intermed.) { Heat	9-12
" 12	Fri.	" { Electricity	2-5
" 12	Fri.	Nat. Philosophy (Intermed.) : Electricity	9-12
1920.			
March 3	Wed.	Entries to be made from 28th February to this date.	
" 10	Wed.	Botany (Intermediate)	9-12

Pure Science—Continued.

Date.		Subject.	Hours.
1920.			
Mar. 11	Thur.	Zoology (Intermediate)	9-12
		Physiology (Advanced)	1-4
" 20	Sat.	Human Anatomy (incl. Anthropology)—	
		1st paper (Second Professional) . .	10-12
		2nd paper (Anthropology)	12-2
		3rd paper (Anatomy, incl. Embryology)	3-6
		Physiology (Intermediate)	2-4
June 3	Thur.	Entries to be made from 31st May to this date.	
" 10	Thur.	Adv. Nat. Phil. (Advanced Dynamics) .	9-12
" 11	Fri.	Advanced Mathematics (1st paper) . .	9-12
		Intermediate Natural Philosophy (Heat)	2-5
" 12	Sat.	Adv. Natural Philosophy (Electricity I.)	9-12
" 14	Mon.	Advanced Mathematics (2nd paper) . .	9-12
		Intermediate Nat. Phil. (Anal. Dynamics)	2-5
" 15	Tues.	Adv. Natural Philosophy (Electricity II.)	9-12
" 16	Wed.	Advanced Mathematics (3rd paper) . .	9-12
		Intermediate Nat. Phil. (Electricity) .	2-5
" 17	Thur.	Adv. Natural Philosophy (Quaternions)	9-12
		Advanced Mathematics (4th paper) . .	2-5
" 18	Fri.	Advanced Mathematics (5th paper) . .	9-12
		Adv. Natural Phil. (General Physics) .	2-5
" 19	Sat.	Geology (Intermediate)	9-12
		Geology (Advanced)	1-3
" 21	Mon.	Advanced Natural Phil. (Physical Optics)	2-5
" 24	Thur.	Botany (Intermediate and Advanced) .	9-12
		Botany (Advanced)	1-3
" 26	Sat.	Astronomy (Intermed.) (at University)	9-12
		(at Observatory)	2-5
" 28	Mon.	Chemistry (Intermediate)	9-12
		Chemistry (Advanced)	1-4
" 30	Wed.	Zoology (Intermediate)	9-12
		Zoology (Advanced)	1-4
		Astronomy (Advanced) (at Observatory)	10-1
July 2	Fri.	Human Anatomy (incl. Anthropology)—	
		1st paper (Second Professional) . .	12-2
		2nd paper (Anthropology)	3-5
" 3	Sat.	3rd paper (Anat., incl. Embryol.) . .	9-12
		Physiology (Intermediate)	12-2

ENGINEERING.

Date.		Subject.	Hours.
1920.			
March 3	Wed.	Entries to be made from 28th February to this date.	
" 15	Mon.	Geology	2-4
" 18	Thur.	Dynamics	9-12
June 3	Thur.	Entries to be made from 31st May to this date.	
" 7	Mon.	Engineering (Materials and Structures) .	9-12
" 8	Tues.	Engineering (Machines and Heat Engines)	9-12
" 9	Wed.	Engineering (Hydraulics and Electrical Technology)	9-12
" 10	Thur.	Engineering (Advanced Materials and Structures)	9-12
		Engineering (Adv. Theory of Machines)	2-5
		Engineering (Advanced Hydraulics)	2-5
" 11	Fri.	Engineering (Civil Engineering, 1st paper)	9-12
		Engineering (Theory of Heat Engines, 1st paper)	9-12
		Engineering (Civil Engineering, 2nd paper)	2-5
		Engineering (Theory of Heat Engines, 2nd paper)	2-5
		Engineering (Elec. Engin'g., 1st paper)	2-5
" 14	Mon.	Engineering (Surveying)	9-12
		Engineering (Elec. Engin'g., 2nd paper)	9-12
		Engineering (Elec. Engin'g., 3rd paper)	2-5
" 15	Tues.	Engineering Drawing (1st paper)	9-1, 2-5
" 16	Wed.	Engineering Drawing (2nd paper)	9-1, 2-5
" 17	Thur.	Dynamics	9-12

PUBLIC HEALTH.*(Oral and Practical Examinations at times to be arranged.)*

1920.			
June 3	Thur.	Entries to be made from 31st May to this date.	
" 21	Mon.	Medicine	10-12
		Sanitary Law	1-3
		Vital Statistics	4-6
" 22	Tues.	Sanitation	10-12, 1-4

AGRICULTURE.

Date.		Subject.	Hours.
1920.			
Jan. 9	Fri.	Entries to be made on or before this date.	
" 13	Tues.	Economic Science	9-11
March 3	Wed.	Entries to be made from 28th February to this date.	
" 15	Mon.	Geology	2-4
" 16	Tues.	Forestry	9-12
		Agricultural Chemistry	2-4
" 17	Wed.	Agriculture	9-12
		Veterinary Hygiene	2-4
" 18	Thur.	Agricultural Entomology	10-12
		Agricultural Entomology, Practical	2-4
" 19	Fri.	Engineering	9-12
		Experimental Physics	3-5
June 3	Thur.	Entries to be made from 30th May to this date.	
" 11	Fri.	Engineering, Field Work	10-12, 2-5

FORESTRY.

1919.			
Sept. 14	Wed.	Entries to be made on this date (office hours, 10 to 1).	
Oct. 6	Mon.	Intermediate Forestry (Protection and Mensuration)	9-12 2-4
Dec. 1	Mon.	Entries to be made on this date.	
" 11	Thur.	Forest Engineering	2-4
1920.			
March 3	Wed.	Entries to be made from 28th February to this date.	
" 12	Fri.	Adv. Forestry (Valuation and Policy)	9-12

Forestry—Continued.

Date.		Subject.	Hours.
1920.			
Mar. 13	Sat.	Advanced Forestry (Management and Working Plans)	9-12
" 15	Mon.	Forest Botany	9-11
" 16	Tues.	Geology	2-4
" 18	Thur.	Forest Mycology	9-12
" 18	Thur.	Forest Chemistry	2-4
" 19	Fri.	Intermediate Forestry (Silviculture)	9-12
June 3	Thur.	Advanced Forestry (Utilisation)	9-12
" 11	Fri.	Forest Zoology, Practical	2-4
" 12	Sat.	Forest Zoology	2-4
" 12	Sat.	Entries to be made from 30th May to this date.	
" 11	Fri.	Surveying	10-12, 2-5
" 12	Sat.	Indian Forest Trees	8-11

VETERINARY SCIENCE.

1919.			
Sept. 24	Wed.	Entries to be made on this date.	
Oct. 1	Wed.	Anatomy	9-11
		Histology	2-4
		Exper. Physiology and Physiol. Chem.	2-4
1920.			
Mar. 3	Wed.	Entries to be made by this date.	
" 15	Mon.	Sanit. Sc. and Vet. Hyg.	9-11
" 19	Fri.	Protozoology and Entomology	10-12
" 20	Sat.	Genetics	2-4
June 3	Thur.	Pathological Bacteriology	10-12
June 3	Thur.	Entries to be made by this date.	
" 21	Mon.	Anatomy	9-11
" 28	Mon.	Protozoology and Entomology	12-2
July 6	Tues.	Genetics	3-5
July 6	Tues.	Pathological Bacteriology	10-12
		Histology	12-2
		Exper. Physiology and Physiol. Chem.	12-2

Doctor of Science.

D.Sc. Candidates in Pure Science and in Engineering are required to lodge their Theses, and proof of their eligibility, with the *Dean of the Faculty of Science* at the Matriculation Office, and to pay the Fees, not later than 6th January, for Spring Graduation, or not later than 1st May, for July Graduation.

Candidates in Public Health are required to lodge their Theses and pay their fees on or before 1st February, and to intimate the subjects in which they desire to be examined, to the Dean, before 1st May. The examination will take place in June.

SCHOLARSHIPS, ENDOWMENTS FOR RESEARCH, BURSARIES, ETC., IN THE FACULTY OF SCIENCE.

(ARRANGED ALPHABETICALLY.)

Note.—The values of the Scholarships, etc., are stated *approximately*: the accuracy of the figures is not guaranteed.

Candidates must, except in cases where it is otherwise stated below, enter their names with the Clerk of Senatus as follows:¹—

For those open in Spring, not later than 1st March.

„ „ Summer, „ 1st June.

In the case of Scholarships, etc., the award of which has been deferred, preference will be given to candidates who were qualified at the time when, in ordinary course, the award would have been made. A period of War Service will not be counted in reckoning qualification.

ARNOTT (NEIL) SCHOLARSHIP IN EXPERIMENTAL PHYSICS.

Awarded annually in June. (See under Faculty of Arts.)

BAXTER NATURAL SCIENCE SCHOLARSHIP.

This Scholarship was founded by Sir David Baxter, Bart., of Kilmaron, in 1865, and is of the annual value of about £103, tenable for two years. It is awarded, on the result of the Final Examination for the Degree of Bachelor of Science, to the Student who is most distinguished in two or more of the Natural Science subjects—viz., Human Anatomy, including Anthropology; Physiology, including Histology; Geology, including Mineralogy; Zoology, including Comparative Anatomy; Botany, including Vegetable Histology—either in the year preceding a vacancy, or in the year in which a vacancy occurs. The holder is required to satisfy the Senatus Academicus that he has been pursuing his studies in Science during the first year of his tenure, in such manner as the Senatus may fix. It cannot be held with any other Scholarship, Fellowship, or Bursary, or with any situation yielding an annual income of more than £100. Open July 1920.

BAXTER PHYSICAL SCIENCE SCHOLARSHIP.

This Scholarship was founded by Sir David Baxter, Bart., of Kilmaron, in 1865, and is of the annual value of about £103, tenable for two years. It is awarded, on the result of the Final Examination for the Degree of

¹ The Senatus reserve power to relax this Regulation, in cases where they are satisfied that very special cause has been shown.

Bachelor of Science, to the Student who is most distinguished in two or more of the Physical Science subjects—viz., Mathematics, Natural Philosophy, Astronomy, Chemistry—either in the year preceding a vacancy, or in the year in which a vacancy occurs. The holder is required to satisfy the *Senatus Academicus* that he has been pursuing his studies in Science during the first year of his tenure, in such a manner as the *Senatus* may fix. It cannot be held with any other Scholarship, Fellowship, or Bursary, or with any situation yielding an annual income of more than £100. Open July 1920.

BAXTER (MISSES) OF BALGAVIES SCHOLARSHIPS.

Under this Endowment there are two Scholarships, of the annual value of £40. The Scholarships are in the gift of the Directors of the High School of Dundee, and are open for competition to all pupils of that school who shall have finished their course at the time, or within one year previously. The examination is held in Dundee by examiners appointed by the Directors, and the subjects are Geometry, Algebra, Trigonometry, and Mechanical Drawing. The Scholarships are tenable for one year certain, and for a second if a favourable certificate is sent to the Directors by the *Senatus Academicus*. The patrons may extend the tenure of these Scholarships for a further period of one year, provided the holder shall have previously passed the First Examination for the Degree of Bachelor of Science in the Department of Engineering in this University. The Classes to be attended during the first two years are Mathematics, Natural Philosophy (Lectures and Laboratory), Engineering (two courses), and Chemistry, and may (by resolution of the *Senatus*) be attended in any order most convenient to the Scholar, provided he intimate his intentions to the Dean of the Faculty of Science beforehand. In the event of a third year's tenure, the Scholar may attend any two classes selected by himself and approved by the *Senatus*. These Scholarships are not to be held with any other Scholarship, Fellowship, or appointment yielding £50 per annum. Intending applicants should communicate with the Secretary of the above School. See Deeds of Foundation, at page 255 of the *CALENDAR* for 1869-70, at page 372 of *CALENDAR* for 1878-79, and at page 377 of the *CALENDAR* for 1881-82.

1917, GEORGE R. PARKER, DAVID H. CAMERON.

CARNEGIE POST-GRADUATE SCHOLARSHIPS (£100), FELLOWSHIPS (£150), AND GRANTS IN AID FOR RESEARCH.

Graduates of this University are entitled to become Candidates. Application Forms may be had from the Secretary to the Carnegie Trust, The Merchants' Hall, Hanover Street, Edinburgh, to whom all communications on the subject must be addressed. Nominations for Scholarships, and applications for Fellowships and Grants in Aid, must be lodged with the Secretary not later than 1st April annually.

DAWSON (WILLIAM) BURSARIES.

Founded 1914 by the Trustees of the late William Dawson, Esquire, of Gairdoch and Powfoulis. Five Bursaries: each £30 a year, for 3 years. Patrons, the Dawson Trustees, per Messrs John C. Brodie & Sons, W.S., 5 Thistle Street, Edinburgh.

The Bursaries are open to students entering or in the first year of study in the Faculty of Science, and proceeding to the degree of Bachelor of Science in Engineering or Agriculture at the University of Edinburgh, and are tenable for three years or such shorter time as the Bursars continue students of the Science Faculty of said University, provided that the tenure of such Bursaries shall be dependent upon the Trustees being satisfied that the Bursars are duly and faithfully performing the work involved in their course of study. One of the said Bursaries shall be given to a student in each of the following branches of the said Faculty:—(1) Civil Engineering, (2) Mechanical Engineering, (3) Electrical Engineering, (4) Mining Engineering, and (5) Agriculture. Candidates must undergo an examination in four out of the following subjects:—(1) English, (2) Mathematics, (3) French, (4) German, (5) Natural Philosophy, (6) Chemistry, (7) Applied Mathematics (for Engineering candidates), or Biology (for Agriculture candidates). So far as possible, the papers shall be those of the Arts First Year Bursary Competition. In other subjects there are special papers. Each candidate for the Bursaries shall submit to the Senatus (1) details of the record of his school work, where he has just left school and has had no practical training, or (2) details of his workshop or other technical training and of any technical classes which he has attended, where he has since leaving school gone through a course of practical training or attended technical classes. See Deed of Foundation, p. 797 in CALENDAR for 1914-15. All the Bursaries may be open in June 1920.

1914, ALEXANDER P. LAING, PETER MURRAY, JOHN SCOTT
STEVENSON (Engineering).

GEORGE M. STRANG (Agriculture).

1917, JAMES A. W. GRIEVE (Engineering).

DICKSON (WILLIAM) TRAVELLING FUND.

See Faculty of Arts.

ELLIS PRIZE FOR PHYSIOLOGY.

See Faculty of Medicine.

EXHIBITION OF 1851 (ROYAL COMMISSION FOR).**Science Research Scholarship.**

The Commissioners for the Exhibition of 1851 give this University the power of nominating a student to a Scholarship of £200 a year, tenable for two years, and which may be extended to three years, under the following conditions, viz. (a) That he is a British subject; (b) That he has been a

bonâ fide student of Science in this University for three years; (c) That he has been for a full year previous to his appointment, and at the date of his appointment is, a student of the University, or has been a student of the University for a full year ending within twelve months prior to the date of his appointment, and since ceasing to be such student has been engaged solely in scientific study. The Scholarship is limited to those branches of Science (such as Physics, Mechanics, and Chemistry) the extension of which is specially important for the national industries, and may be tenable in any University or other Institutions to be approved by the Commissioners. Applications must be made to the Dean of the Faculty of Science not later than 1st March. See Regulations, p. 544 of CALENDAR for 1891-92.

1919, GEORGE SHEARER, M.A., B.Sc.

Industrial Bursary.

The following are the Regulations of the Commissioners:—

1. The Scheme of Industrial Bursaries is designed for the assistance of young men who, after a course of training in a University or approved Technical College, desire to take up Engineering, Chemical, or other industrial work. 2. These Bursaries are intended, not to facilitate the continuance of collegiate studies by means of post-graduate work, but to enable suitable applicants to tide over the period between their leaving College and obtaining remunerative employment in industry. 3. The value of the Bursary will depend on the circumstances of the holder, but will, as a rule, not exceed £100 a year. 4. A Bursar will be elected in the first instance for one year, but the tenure of his Bursary will ordinarily be prolonged a second year provided that the Commissioners are satisfied with the work done by the Bursar during his first year. 5. In special circumstances a Bursary may be renewed for a third year. 6. The appointments to the Bursaries will be made by the Commissioners from among Candidates recommended by the Authorities of certain selected Universities and Technical Schools. *N.B.*—In the consideration of these recommendations great weight will be given to evidence that a Candidate has the practical ability likely to lead to his advancement in industrial work: academic success alone is not a sufficient recommendation. 7. The Candidate must be a British subject, under the age of 25. 8. The Candidate must have been a *bonâ fide* student of Science for a term of three years. 9. The Candidate must further satisfy the Commissioners—(a) That he has obtained, or can, within one month of election, obtain an industrial post to be approved by them; (b) That he is in need of pecuniary assistance to enable him to hold such a post. (10) A Bursar may, if the Commissioners approve, spend part of the tenure of his Bursary in studying a special industrial process or processes in works either at home or abroad. 11. No Bursar shall enter a firm as a premium pupil without the special consent of the Commissioners. 12. A Bursar must submit to the Commissioners, on the expiration of each year of his Bursary, a satisfactory report of his work, from his employers. Names of Candidates must be intimated to the Dean of the Faculty of Science not later than 30th April.

FALCONER MEMORIAL FELLOWSHIP.

This Fellowship was founded in 1869 by the Subscribers to the Fund for a Memorial to Hugh Falconer, M.D. (for many years Superintendent of the H. E. I. Company's Botanic Gardens at Suharunpoor and Calcutta), and the Association for the better Endowment of the University, for the encouragement of the Study of Palæontology and Geology. It is of the annual value of about £127, and is tenable for two years, but if the Senatus sees fit, it may be held for three years, and with consent of the University Court, for four years. It is awarded after competitive examination in Natural History as applied to Palæontology and Geology, and is open to Graduates in Science or Medicine of this University of not more than three years' standing at the time of the competition. It cannot be held along with any other Fellowship, Scholarship, or Bursary in any Scottish University. The Deed of Foundation will be found at p. 270 of the CALENDAR for 1870-71. The next appointment may be made in July 1919.

1919, T. M. FINLAY, M.A., B.Sc.

GRAY SCHOLARSHIP.

(See Faculty of Arts.)

GROCCERS' COMPANY OF LONDON RESEARCH SCHOLARSHIPS.

With the object of encouraging original research in Sanitary Science, the company offer Scholarships of £300 a year, with an allowance to meet cost of apparatus and other expenses in connection with the research work, tenable for one year, but renewable for a second or third year, subject to the conditions of the scheme under which they are established. Apply to the Clerk to the Grocers' Company, Grocers' Hall, London, E.C., from whom forms of application and all necessary information may be obtained.

HOPE PRIZE SCHOLARSHIPS.

Three Hope Prize Scholarships have been instituted (with funds formerly of the Hope Chemistry Prize founded by the late Professor Thomas C. Hope) in connection with the Chemical Laboratory of the University, each of the value of about £30 per annum, tenable for one year, and awarded annually. Each Scholarship is awarded to the student whom the Professor of Chemistry thinks most deserving of those who have worked during the year in the Chemical Laboratory of the University. The scholars must work during the year succeeding their appointment in the Chemical Laboratory of the University, and must assist the Professor of Chemistry in such manner as he thinks fit in each case, and the scholars are not required to pay fees for the Laboratory. In case of resignation of a Scholar, or of a Scholar failing to fulfil the conditions, the Professor of Chemistry may, if he thinks proper, recommend a student working in the Chemical Laboratory for the remainder of

the Scholarship so become vacant: the new scholar so appointed to perform the duties and receive the payments during the remainder of the time for which his predecessor was appointed. Scholars may, in case of great distinction, be appointed for a second year.

1917, BETTY BOATH, AGNES CROWE, R. K. S. MITCHELL.

1918, MARY R. MACKENZIE, ELINOR M. YOUNIE, WILLIAM F. GILLIES.

INDUSTRIAL BURSARY. See **Exhibition of 1851**, above.

MACCALLUM BURSARIES IN VETERINARY SCIENCE.

There are two Bursaries of equal amount for students wishing to study at the Royal (Dick) Veterinary College, Edinburgh, for the Diploma of the Royal College of Veterinary Surgeons, and at the University of Edinburgh for the Degrees of Bachelor and Doctor of Veterinary Science.

Preference will be given to candidates who belong to the parish of Maybole; failing them, to candidates belonging to any one of the neighbouring parishes of Barr, Dailly, Kirkoswald, Dalrymple, Kirkmichael, Straiton, and Girvan. Full particulars as to the conditions of the Bursaries, Examinations, etc., may be obtained from, and applications must be lodged with, the Town Clerk, Maybole.

MACKAY SMITH SCHOLARSHIPS.

These Scholarships, one in Natural Philosophy and one in Chemistry, each of the annual value of £27, tenable for two years, are held under such regulations and conditions as the Senatus may from time to time direct. The Scholarship in Natural Philosophy is open for competition to students who have attended the Class of Natural Philosophy, and the Scholarship in Chemistry to students who have attended the Class of Chemistry, both in this University. The successful candidate for the Scholarship in Natural Philosophy is bound to attend the Class of Natural Philosophy, or to prosecute the study thereof, in the University during at least one year of his tenure of the Scholarship, in such way as the Senatus may direct or approve. Candidates for the Natural Philosophy Scholarship will be expected, besides attending the examination, to submit properly authenticated records of Laboratory work performed by them; and such records will be taken into consideration by the Examiners.

The Scholarship in Chemistry is held under similar conditions as regards attendance on the Class of Chemistry, and the prosecution of the study thereof. The next competition in Natural Philosophy and in Chemistry will take place in June 1920.

MORAY (EARL OF) ENDOWMENT FOR THE PROMOTION OF ORIGINAL RESEARCH.

(For particulars see under **Faculty of Arts**.)

REID AND THOMSON BURSARY IN CIVIL AND PRACTICAL ENGINEERING.

This Bursary is of the annual value of £80, is tenable for two years in this University, and is awarded on the results of the First B.Sc. Examination in Mathematics and Natural Philosophy. Should the Bursar pass the Final Examination for B.Sc. in Engineering during the second year of his tenure of the Bursary, it may be continued for a third year, during which he shall be required to undertake some original research work and to assist in laboratory teaching of the Engineering department. Candidates must have passed the Preliminary Examination or its equivalent, and attended during their first Winter Session, courses in Mathematics and Natural Philosophy qualifying for the First B.Sc. Examination in Engineering, and must, unless excused by the Senatus, complete the First Science Examination in Engineering during their first year's tenure of the Bursary. The Bursary cannot be held, unless with the express permission of the Senatus, along with any other University Scholarship, Fellowship, or Bursary. Candidates must, on entering for the examination, produce evidence that they have fulfilled the conditions of eligibility, and during the whole tenure of the Bursary, the holder must prosecute his studies in Engineering in the University to the satisfaction of the Senatus, and with the view of obtaining the Degree of B.Sc. in Engineering. The subjects of examination are (a) Mathematics (as required for the First B.Sc. Examination in Engineering); (b) Natural Philosophy (as required for the First B.Sc. Examination in Engineering), in which the records of a Candidate's Laboratory work will be taken into account. May be open June 1920.

1914, J. T. FLETT.

STEVEN SCHOLARSHIP IN AGRICULTURE.

This Scholarship was founded in 1882 by the Misses Steven of Bellahouston in memory of their brother Moses Steven, Esq. It is of the value of about £88, and is awarded annually in March, in connection with the Class of Agriculture, the subjects of examination being Agriculture and General and Agricultural Chemistry.

The Scholar is required to visit the annual exhibitions of the four leading agricultural societies, or such as the Professor of Agriculture shall appoint, and to report on his visit or visits to the satisfaction of the Professor of Agriculture. The Exhibitions which the Scholar is required to visit are :—

The Royal Agricultural Society of England.
The Bath and West of England Agricultural Society.
The Highland and Agricultural Society of Scotland.
Royal Agricultural Society of Ireland.

See Deed of Foundation at page 397 of CALENDAR for 1882-83.

1919, JAMES A. MACMILLAN.
prox. accessit, ERIC MACKINNON.

SWINEY LECTURESHIP ON GEOLOGY.

This Lectureship is in the patronage of the Trustees of the British Museum, and is of the annual value of £144. The Trustees may appoint any graduate in any Faculty of the University who has obtained his degree after examination. The office is tenable for five years, at the expiration of which period the Lecturer is ineligible for the next election. The number of lectures is not to be less than twelve in each year, nor more than three in the same week. The course is required to be annually delivered between the first of November and the end of July following, at such public places in the United Kingdom as the Trustees shall approve. The public are admitted without fee. The Lecturer is required at the termination of each course to deposit a copy, or full extract of such course of lectures, with the Principal Librarian of the British Museum, to whom application may be made for further particulars.

TREVELYAN (ARTHUR) SCHOLARSHIPS IN ENGINEERING.

There are two Scholarships, each of about £20 per annum, for proficiency in Engineering and the Mechanical and Useful Arts, tenable in this University for two years. Candidates must not be more than nineteen years of age, must have passed the Preliminary Examination or its equivalent, and must not have attended more than one Winter and one Summer Course in Engineering and field work respectively, either in this University or elsewhere. The subjects of examination are (a) Mathematics, as far as the subjects required for the first B.Sc. Examination in Engineering; (b) Natural Philosophy to the same extent; (c) Engineering (the subjects of the previous Winter Session and Field Work); (d) Geometrical Drawing and Elementary Graphics. See Excerpt from Deed, page 538 of CALENDAR for 1892-93. One Scholarship is awarded annually in June.

1919, WILLIAM G. BLACK.

VANS DUNLOP SCHOLARSHIPS.

These Scholarships are each of the annual value of £100, and are tenable for three years. The following are the General Regulations:—

Each Scholarship is tenable on condition that the scholar submits annually to the University evidence that he is prosecuting his studies or his professional work in a manner satisfactory to the Senatus. The evidence may consist of—(1) A certificate of attendance on lectures or laboratories approved by the Senatus; or (2) a certificate of having acted as an assistant to a Professor in this or some other University; or (3) a written report of his work done during the year, together with a Thesis composed by himself in connection with some part of that work.

Not more than one of these Scholarships can be held by the same person. Scholars cannot hold, along with their Scholarships, any other Fellowship, Scholarship, or Bursary in the University of Edinburgh.

Candidates must, on entering for the Examinations, produce evidence that they have fulfilled the conditions of eligibility.

Candidates, if not already matriculated, are required to pay the Matriculation Fee for the year in which the competition takes place.

The names of Candidates highly distinguished in the examinations may be published.

Agriculture and Rural Economy.

The competition is open to all who have been Matriculated Students in this University for not less than two years, in each of which they must have attended at least one full course or two half-courses; provided that at the time of the competition not more than one year has elapsed since they ceased to attend classes in this University, and further that not more than six years have elapsed since the time of their first entering a class qualifying for the B.Sc. Degree; provided also that they have attended the Class of Agriculture and Rural Economy within one year of the date of competition. The subjects of examination are Agriculture, Chemistry, Botany, and Veterinary Science. Two Scholarships will be open in March 1920.

Chemistry.

The competition is open to all who have been Matriculated Students in this University for not less than two years, in each of which they must have attended at least one full course or two half-courses; provided that at the time of the competition not more than one year has elapsed since they ceased to attend classes in this University, and further that not more than six years have elapsed since the time of their first entering a class qualifying for the B.Sc. Degree. The subjects of Examination are:—(a) Inorganic and Organic Chemistry, and the connection between the Chemical and Physical character of Substances. (b) Qualitative and Quantitative Analysis of Organic and Inorganic Substances, the Preparation of Pure Chemical Substances, and Physico-chemical Measurement. The examination in subjects (a) is similar, and will be held at the same time as the Second B.Sc. Examination. The examination in subjects (b) is conducted practically in the Laboratory. The Scholarship will be open in June 1920.

Engineering and Mechanical and Useful Arts.

The competition is open to all Matriculated Students who have been in regular attendance on the Class of Engineering for at least two years, in each of which they must have attended at least one full course or two half-courses; provided that at the time of the competition not more than one year has elapsed since they ceased to attend classes in this University, and further that not more than four years have elapsed since the time of their first entering a class qualifying for the B.Sc. Degree. The examination is similar to that for the Second B.Sc. in Engineering, with the addition of questions on prescribed books treating of Engineering and Mechanical and useful Arts. The Examiners are the Professor of Engineering and the Lecturer on Applied Mathematics. Two Scholarships will be open in June 1920.

Mathematics.

The next competition will take place in June 1920. (See under Faculty of Arts.)

Natural History, including Geology and Botany.

The competition is open to all who have been Matriculated Students in this University for not less than two years, in each of which they must have attended at least one full course or two half-courses; provided that at the time of the competition not more than one year has elapsed since they ceased to attend classes in this University, and further that not more than six years have elapsed since the time of their first entering a class qualifying for the B.Sc. Degree. The subjects of Natural History, Geology, and Botany are coequal in the examination, and the examination in each of the three subjects is similar to that for the Final Examination in Pure Science, and consists of two parts—a Written Examination, extending over not less than three hours, and a Practical Examination with specimens. Two Scholarships will be open in June 1920; and the examination will be held at the same time as the Final Science Examination.

Natural Philosophy.

The next competition will take place in June 1920. (See under Faculty of Arts.)

WARDLAW BEQUEST for behoof of indigent and deserving Students. (See under Faculty of Arts.)

The following ARTS BURSARIES are tenable in the Faculty of Science:—

Allan.	Heriot.	Morayshire Club.
Baxter of Balgavies.	Jamieson.	Peeblesshire.
Border Counties.	Lanarkshire.	Renton.
Campbell.	Macdonald.	Sibbald.
Christie.	MacLaurin.	Stuart.
Glenbuck.	Mann.	Strang Steel.
Grant.	Maule.	

Excerpt from Ordinance 57—General No. 19.

Regulations as to Bursaries, Scholarships, and Fellowships.

III. (2) It shall be in the power of the Senatus Academicus, with the approval of the University Court, to permit such bursars as they shall from time to time select, to attend classes qualifying in Pure Science, in place of classes qualifying for graduation in Arts.

PAYMENT OF SCHOLARSHIPS, BURSARIES, ETC.

The attention of all Bursars in the Faculty of Science is particularly called to the following regulation:—

Bursars, etc., in the Faculty of Science (to whose Bursaries special conditions are not attached) must annually attend at least two of the classes necessary for the degree of Bachelor of Science, and must present themselves at the examinations necessary for that degree.

Each Fellow, Scholar, Bursar, or Prizeman, when he applies to the Factor for a payment, must produce a Certificate, signed by the Dean, or the Professor to whose department the Foundation is attached, attesting his regular attendance on the proper classes, etc., or otherwise that he has fulfilled the conditions attached to the Foundation.

Certificates, in terms of this regulation, will be given to Bursars, by the *Dean of the Faculty of Science*, on 13th November; and at the end of the Session. In applying to the Dean for the Certificate in November, Bursars must present their Class Cards for the Session; and at the end of the Session they must present Certificates from the Professors that they have attended with regularity and made progress in their studies. Payments are made by the University Factor, Sir Henry Cook, W.S., 61 Castle Street, Edinburgh, on and after 15th November for the Martinmas payments, and on and after 19th May for the Whitsunday payments, between 10 and 3 o'clock.

N.B.—Bursars, Scholars, and Fellows who desire to resign should at once announce this to the Factor. They must apply to the Factor for the instalments due to them within three months after they have become payable, otherwise they will be regarded as having resigned.

FACULTY OF DIVINITY.

DEAN—PROFESSOR W. P. PATERSON, D.D.

PROGRAMME OF CLASSES, 1919-1920.

The Classes will meet daily as follows (Saturdays excepted), unless otherwise stated. The Session will be extended over three terms—the Autumn term from 15th October to 19th December; the Spring term from 13th January to 9th March; the Summer term from 20th April to 11th June.

CLASSES.	Days of Opening and Hours of Lectures.	Professors.	Class Fees, ¹ See also p. 492.	See also page
Divinity ² —Junior Class	15 Oct., 9 a.m.	Prof. Paterson	£3 3 0	493
Senior Class	15 Oct., 10 a.m.		3 3 0	493
Hebrew ³ —Elementary Class (see below)	16 Oct., 2 p.m.		1 11 6	...
Junior Class	15 Oct., 10 a.m.		3 3 0	493
Senior Class	15 Oct., 9 a.m.	Prof. Kennedy and Assistant	3 3 0	494
Honours	15 Oct., 10 a.m.		4 4 0	176
Aramaic (<i>Thursday and Thursday</i>) ^{4, 5}	15 Oct., 11 a.m.	Prof. Mackinnon	2 2 0	494
Ecclesiastical History	— Oct., 9 a.m.		3 3 0 ⁵	494
Ecclesiastical History, Advanced	15 Oct., 12 noon	Prof. Curtis	2 2 0	495
Biblical Criticism		Prof. Mair	3 3 0	495
Elementary Course in Greek ⁶			3 3 0	147
Ecclesiastical Art ⁶	13 Jan., 3 p.m.	Prof. Baldwin Brown	2 2 0	245

An ELEMENTARY CLASS for those beginning the study of HEBREW meets on Tuesdays and Thursdays during the Arts Session. Textbook: A. B. Davidson's *Introductory Hebrew Grammar*.

¹ This Table of Fees applies to the old Two Term Session; otherwise the Fee per Term is £1, 11s. 6d.

² The two classes will meet together on subsequent Wednesdays at 10 o'clock.

³ The two ordinary classes will meet together on subsequent Wednesdays at 9 o'clock.

⁴ The hour will be fixed to suit intending Students.

⁵ See under FACULTY OF ARTS.

⁶ See Carnegie Trust (Appendix).

MATRICULATION, ENTRY FOR CLASSES, etc.

Matriculation consists in paying annually an entrance fee to the University, and in inscribing the name in the Students' Album.

The Matriculation Fees are :—

For the Academic Year, 1st October to 1st October . £1 1 0

For the Summer Session only, 1st April to 1st October . 0 10 6

Candidates for Examination or for Graduation must pay the Matriculation fee of £1, 1s., unless previously matriculated for the whole year.

Students are required to take out their Matriculation Tickets and Class Tickets not later than fifteen days after the beginning of the Course.

For Second and Third Attendances in Divinity, no reduction. Subsequent attendances free. For Second Attendances on Hebrew, Ecclesiastical History, and Biblical Criticism, no reduction. Subsequent attendances free. Fee in case of Licentiates of Foreign and Colonial Churches, £2, 2s.

CURRICULUM FOR THE MINISTRY IN THE CHURCH OF SCOTLAND.

The Laws of the Church of Scotland require that every Theological Student, who desires to qualify himself for the Ministry, should attend the Class of *Divinity*, either during *three full and regular Sessions*, or during *two regular and three partial Sessions*;—and also that he should regularly attend during two Sessions each of the Classes of *Hebrew*, *Ecclesiastical History*, and *Biblical Criticism*.

Full particulars in regard to Entrance Examinations, Exit Examination, Discourses, Attendance at Foreign Universities, etc., are given in the *Church of Scotland Year-Book* for 1919.

Special privileges have been granted to candidates for the ministry of the Church of Scotland who have been absent on War service, in reference to the duration of the curriculum, entrance and exit examinations, etc. Particulars in Assembly Reports, 1916-19, or on application to Rev. Dr Gardiner, Kirknewton.

COURSES IN THE FACULTY OF DIVINITY

I. Divinity.

PROFESSOR W. P. PATERSON.

Junior Class—9 to 10.

The subjects of the Course are the Nature and History of Religion, the Philosophy of Religion, and the Nature and Truth of the Christian Religion. Lectures will be given on Mondays, Tuesdays, Thursdays, and Fridays.

It is proposed to divide the subject as follows:—

Autumn Term.—The Nature of Religion—Sketch of the Principal Ethnic Religions.

Spring Term.—Nature of Christianity on the basis of Biblical Theology.

Summer Term.—Outline of Apologetics.

Senior Class—10 to 11.

During the three Terms an outline of the system of Dogmatic Theology will be given on Tuesdays, Thursdays, and Fridays. The two classes will meet jointly on Wednesdays at 10 for a course on Homiletics, treated theoretically and practically.

II. Hebrew and Semitic Languages.

PROFESSOR KENNEDY.

A. HEBREW.

Junior Class—9 to 10.

It is assumed that students attending this Class have already mastered the first thirty sections of the textbook (Davidson's *Introductory Hebrew Grammar*). The work of the Class consists mainly in the further study of the Grammar, with home exercises, varied by the reading of easy prose passages from the Old Testament (Genesis and Ruth), and a few selected Psalms.

The student's progress is tested by a written examination at the close of each term.

Senior Class—10 to 11 (Wednesdays, 9 to 10).

Study of Davidson's *Hebrew Syntax*. Hebrew Prose Composition. Reading of unpointed texts.

Reading and Exposition of portions of the Historical, Poetical, and Prophetical Books of the Old Testament. For Session 1919-20, selections from the readings prescribed for the B.D. Degree in March and October 1920 (see below). (R. Kittel's *Biblia Hebraica* or parts thereof indispensable.)

A Course of Lectures, extending over two Sessions, on Old Testament Introduction (including History of the Canon, Text and Versions) is given on Wednesdays to both Classes at 9 A.M.

There is a written examination at the close of each term.

The Senior Hebrew Class is also the Graduating Class in Hebrew for the Ordinary Degree of Master of Arts. (See under Faculty of Arts.)

Those who propose, in a subsequent Session, to take up Hebrew as one of their Graduation Subjects, will have an opportunity of attending the Elementary and Junior Classes in that language during the Session 1919-20.

For Elementary Class for Beginners, see page 491; and for Honours Hebrew, see under Faculty of Arts.

B. ARAMAIC.

See under Faculty of Arts.

1919-20.—Syriac Grammar, Gospel of Mark (Peshitta).

1920-21.—Biblical Aramaic, and the dialect of Targum Onkelos.

For ARABIC, see under Faculty of Arts.

III. Ecclesiastical History—11 to 12.

PROFESSOR MACKINNON.

ORDINARY CLASS.—Lectures on the History of the Christian Church during the First Six Centuries.

The subject will be treated partly in outline, partly in detail. Special attention will be devoted to the Origins and Expansion of Christianity, and the Development of the Constitution and Teaching of the Church.

Books recommended.—Rainy, *The Ancient Catholic Church*; Jackson, *History of the Christian Church*; Gwatkin, *Early Church History*; Moeller, *History of the Christian Church*, I.

ADVANCED CLASS OR SEMINAR for the purpose of *Studying Original Sources*, including most of those prescribed for the B.D. and Honours M.A. Examinations.

This Class will meet at 9 o'clock about twenty-five times during the Autumn and Spring Terms. Fee, £2, 2s., which is paid, in the case of Graduates and Honours History Students, by the Carnegie Trust.

Subject for Session 1919-20 —The Reading and Discussion of the Sources of the History of the Reformation, particularly selected works of the Reformers, and the Reformation Legislation by the English and Scottish Parliaments and Ecclesiastical Councils.

For Session 1920-21 :—Studies in the Development of the Constitution of the Church in the Second and Third Centuries.

An Advanced Class will also be held twice a week during the Summer Term, if a sufficient number of students offer themselves. The subject is "The Origin and Progress of the Scottish Reformation, as illustrated from the Original Sources." Fee, One Guinea, which is paid, in the case of Graduates and Honours History Students, by the Carnegie Trust.

For Honours Class, see under Faculty of Arts.

IV. Biblical Criticism and Biblical Antiquities— 12 to 1.

PROFESSOR CURTIS.

The course of study next Session will include: (1) Reading of the Greek New Testament (Gospel according to John), with Textual Criticism, Introduction, and Exegesis; (2) Theology of the book read; (3) A Study of the Epistle to the Romans.

During part of the Session, Mondays will be devoted to the delivery and discussion of students' lectures on Biblical subjects.

There will be two written examinations, and the class work will include oral examination and short essays.

REGULATIONS FOR GRADUATION IN DIVINITY.

(Candidates who began the study of Divinity with a view to Graduation before 1st October 1896 are referred to the CALENDAR for 1896-97, and to previous CALENDARS.)

I. No one is admitted to examination as a Candidate for the Degree of Bachelor of Divinity (B.D.) unless he be (1) a Graduate in Arts of the University, and has taken a complete Theological Course in a Scottish University or Universities, or in an institution or institutions specially recognised for the purpose by the University Court, or partly in a Scottish University or Universities and partly in such institution or institutions; or (2) a Graduate in Arts of any Scottish University or other University specially recognised as aforesaid, and has completed his Theological Course, of which not less than two years' attendance has been given in this University.

By a Supplementary Ordinance it is provided that, notwithstanding the provisions of Section I. hereof, the Senatus Academicus may, under this Section, admit candidates to examination in not more than three of the subjects, after the completion of the second session of attendance on their Theological Course.

II. The Examiners are the Professors of the subjects included in the examinations, and two additional Examiners appointed by the University Court. The mode of conducting the examination is fixed from time to time by the Senatus Academicus.

III. The subjects of examination are arranged in two departments: the First Department embracing—(1) Hebrew, and (2) Apologetic Theology, or the Evidences of Natural and Revealed Religion; and the Second Department embracing—(1) Ecclesiastical History, (2) Systematic Theology, and (3) Biblical Criticism and Biblical Antiquities.

IV. Every Student who at the time when these Regulations came into operation had completed a part of his Theological Course with a view to Graduation as B.D., under Regulations hitherto in force, and shall thereafter complete his course of study in conformity with such Regulations, may become a Candidate for the Degree of B.D., without complying with the provisions of these Regulations.

V. The Degree of B.D. is in no case conferred on persons who have not complied with the conditions hereinbefore set forth, and is not conferred *honoris causâ tantum*.

Subjects of Examination for 1919-1920

DEPARTMENT I.

I. Hebrew—

A. *For October 1919.*

- (1) Questions in Grammar (including syntax).
- (2) Translation into Hebrew Prose.
- (3) Pointing of one or more passages from the historical book, or books, prescribed.
- (4) O.T. Introduction—Introduction to Judges, Samuel, Kings, and Isaiah; the History of the O.T. Text, and of the Greek and Latin Versions.
- (5) 1 Kings, i.-iii., xvii.-xix.; 2 Kings, xvi.-xix., xxii., xxiii.
- (6) Isaiah xl.-lv.
- (7) Psalms xc.-cvi., cxx.-cxxxiv.

B. *For March and October 1920.*

- (1-3) As above.
- (4) O.T. Introduction—Introduction to the Pentateuch and the Minor Prophets; the history of the Old Testament Canon.
- (5) Exodus i.-xiv., xx.-xxiii.
- (6) Amos and Joel.
- (7) Psalms i.-xxiv.

II. Apologetic Theology—

For October 1919.

- A. History and Philosophy of Religion.
 1. Buddhism, Mohammedanism, and Christianity: a comparison of theological and moral ideals, with special reference to the claim of each of these faiths to be accepted universally.
 2. The Moral Argument for the Existence of God. The Problem of Natural and Moral Evil.
- B. Christian Apologetics.
 1. *The Apology of Aristides* (to be studied in the Greek text).
 2. *Modern Doctrines of Revelation*, from Lessing onward.
 3. The apologetic significance of *The Messiahship of Jesus*.

For March and October 1920.

- A. History and Philosophy of Religion.
 1. Theories of the Origin of Religion. Animism.
 2. Kant's criticism of the Theistic proofs, and his Moral Argument. The argument from Values in recent Theistic discussion.
- B. Christian Apologetics.

Types of the Christian Apology:—*The Octavius* of Minucius Felix (to be studied in the Latin text); Butler's *Analogy*; Bruce's *Apologetics*.

DEPARTMENT II.

I. Ecclesiastical History—

For October 1919 and March and October 1920.

- (1) The History of the Church during the First Six Centuries in Outline. The Origin and Diffusion of Christianity and the Development of the Doctrine and Constitution of the Church in Detail.
- (2) History of the Reformation in Germany, Switzerland, England, and Scotland in the 16th century.

For the examination a knowledge of the following contemporary works is obligatory:—Under (1), Eusebius, *Eccles. History*, books iii. and iv. (Greek Text, preferably the small edition by Schwartz). Under (2), Luther's *Reformation Treatises: An den Christlichen Adel Deutscher Nation; De Captivitate Babylonica Ecclesiae; Von der Freiheit eines Christen Menschen*, English trans. by Wace and Buchheim; Gee and Hardy, *Documents Illustrative of English Church History*, Nos. 46 to 80. Knox's *Historie of the Reformation in Scotland* (edited by Laing), particularly from 1559 to 1567. A satisfactory knowledge of the prescribed sources is essential for a pass.

II. Dogmatics—

For October 1919.

- (1) The Source and Norm of Christian Doctrine; the History of the Literature of Dogmatics in General Outline.
- (2) The Doctrines of the Trinity and of the Atonement.
- (3) Texts:—The Catholic Creeds; Athanasius, *De Incarnatione*; Anselm, *Cur Deus Homo*. (The texts to be studied in the original.)

For March and October 1920.

- (1) The Source and Norm of Christian Doctrine; the History of the Literature of Dogmatics in General Outline.
- (2) Doctrine of the Divine Attributes.
- (3) Doctrines of the Trinity and the Person of Christ.
- (4) Texts:—The Catholic Creeds; Athanasius, *De Incarnatione*; (The texts to be studied in the original.)

III. Biblical Criticism and Biblical Antiquities—

A. For October 1919.

- (1) Greek New Testament. Translation of passages *ad aperturam*. Text, Translation, Exegesis, Introduction, Contents, and Theology of the Gospel according to Mark (with Synoptic material corresponding to chapters i.-iv.), and of the Epistles to the Hebrews and to the Galatians.
- (2) History of the Textual Criticism of the New Testament (including knowledge of the principal Manuscripts, Versions, and Critical editions).
- (3) The Synoptic Problem.

B. For March and October 1920.

- (1) Greek New Testament. Translation of passages *ad aperturam*. Text, Translation, Exegesis, Introduction, Contents, and Theology of the Gospel according to John, and of the Epistle to the Romans.
- (2) History of the Textual Criticism of the New Testament (including knowledge of the principal Manuscripts, Versions, and Critical editions).
- (3) The Synoptic Problem.

Examination Fees.

Fee for Degree of B.D. £5 5 0

When the Examination is taken at two periods—

The Fee for the First is 3 3 0
 For the Second 2 2 0

Any Candidate who fails to pass pays a fee of 10s. 6d. for re-examination in each subject.

All Candidates for Examination or for Graduation must be Matriculated Students of the year in which they appear for Examination or for Graduation.

Time-Table of Examinations and Dates of Entry, 1919-1920.

Candidates are required to enter for each periodical Examination at which they desire to appear, and to state the subject or subjects in which they desire to be examined. When the fee has been previously paid, a pass to the examination must be obtained.

When names are not entered, and fees paid, on or before the stated dates, an additional or late-entry fee of ten shillings must be paid before the Candidates can be admitted to examination.

1919.

- Sept. 29. Tu. Names to be entered and fees paid *on* this date.
 Oct. 7. Tu. Hebrew, 9-11 : 11.15-1.15 ; Apologetics, 2.30-4.30.
 " 8. Wed. Apologetics, 9-11 ; Dogmatics, 11.15-1.15 : 2.30-4.30.
 " 9. Th. Ecclesiastical History, 10-12 : 1-3.
 " 10. Fri. Biblical Criticism, 10-12 : 1-3.
 " 25. Sat. GRADUATION, at 10 A.M.

1920.

- Mar. 9. Tu. Names to be entered and fees paid *on* this date.
 " 16. Tu. Hebrew, 9-11 : 11.15-1.15 ; Apologetics, 2.30-4.30.
 " 17. Wed. Apologetics, 9-11 ; Dogmatics, 11.15-1.15 : 2.30-4.30.
 " 18. Th. Ecclesiastical History, 10-12 : 1-3.
 " 19. Fri. Biblical Criticism, 10-12 : 1-3.
 " 26. Fri. GRADUATION, at 10 A.M.

* * Candidates are also required to communicate their names, together with evidence of their being qualified in terms of the above Regulations, to the Dean of the Faculty of Divinity, at least one week before the first day of the Examination.

Every Candidate for Graduation must pay the Fee of £1 for Registration as a Member of the General Council (if not already a Member) *at least three days before the Graduation.*

The fees for Matriculation, for Examinations for Degrees, and for Registration of Graduates as Members of the General Council are payable at the Matriculation Office, University. When Candidates cannot attend personally to pay the fees, they should transmit them to JAS. DOWIE, University, Edinburgh, by *Money Orders* or *Postal Orders*, or by *Bank Drafts*, crossed "*Union Bank of Scotland (Hunter Square Branch), Edinburgh.*"

POST-GRADUATE SCHOOL OF THEOLOGY

BOARD OF STUDIES IN THEOLOGY

- (1) *Faculty of Divinity (Church of Scotland).*—Rev. Professor W. P. PATERSON, D.D., *Convener*; Rev. Professor W. A. CURTIS, D.Litt., D.D.; Rev. Professor A.R.S. KENNEDY, D.D.; Rev. Professor JAMES MACKINNON, Ph.D., D.D.
- (2) *Senatus of New College (United Free Church of Scotland).*—Rev. Principal ALEXANDER MARTIN, D.D.; Rev. Professor H. A. A. KENNEDY, D.Sc., D.D.; Rev. Professor H. R. MACKINTOSH, D.Phil., D.D.; Professor J. Y. SIMPSON, D.Sc.; Rev. Professor HUGH WATT, B.D.; Rev. Professor ADAM C. WELCH, D.D., Th.D.
- (3) Rev. Principal W. PERRY, D.D., Coates Hall (Episcopal); Rev. Principal A. J. GRIEVE, D.D., Congregational Hall; EDWARD ROBERTSON, B.D., D.Litt., University Lecturer in Arabic.

Secretary.—Professor A. R. S. KENNEDY, D.D., 33 Fountainhall Road, Edinburgh.

The Post-Graduate School has been instituted (1919) for the purpose of providing advanced teaching in the several Departments of Theology, and also of advising duly qualified students desiring to undertake research work with a view to the Degree of Ph.D. in Theology.

The regular teachers in the School are the Professors in the University Faculty of Divinity and the Professors of New College, with whom are associated the Heads of the Divinity Schools of the Scottish Episcopal and Congregational Churches. These form the Board of Studies in Theology, which is responsible for the management of the School, under the direction of the Senatus Academicus and University Court. In addition to the above, certain other Professors and Lecturers of the University will take part in the work of the School.

The subjects of instruction are grouped in five Departments viz. :—

Department I.—The Old Testament and Semitic Languages.

Reading and Exegesis, with Introduction, of selected books of the Old Testament ; Post-biblical Hebrew (Mishna, Midrash, and Jewish Commentaries); Aramaic; Arabic. Advanced courses in Old Testament History, Literature, and Theology.

Department II.—The New Testament and Early Christian Literature.

Reading and Exegesis, with Introduction, of selected books of the New Testament in Greek ; Hellenistic Greek ; Patristics. Advanced courses in New Testament Theology, and in special studies bearing on the contents of the New Testament.

Department III.—Church History.

Advanced courses on selected periods and topics of Church History ; Tendencies and Movements in recent Church History —both studied in connection with the original sources ; the Development of Christian Worship ; the History of Ecclesiastical Art.

Department IV.—Systematic Theology.

Advanced courses in (1) Apologetics ; (2) Dogmatics ; (3) Christian Ethics.

Department V.—History of Religions and Philosophy of Religion.

The courses in these Departments will combine lectures on an advanced standard with work of the kind usually associated

with a Theological *Seminar*. As a rule, the courses for each of the three University Terms¹ will be complete in themselves.

Admission to the School is open to (1) Graduates in Divinity of a University recognised for the purpose by the University Court; (2) Holders of a Diploma or Exit Certificate from a Theological College or Seminary specially recognised as aforesaid; (3) other students who are able to satisfy the Board of Studies of their fitness to undertake advanced study in one or other of the Departments above specified.

With the exception of the courses in Department I., indicated below, the fee for a Term course of twenty meetings is £2, 2s.; for three such courses, £5, 5s.; and for a half-course of ten meetings, £1, 1s. All students must pay the annual Matriculation Fee of £1, 1s., or 10s. 6d. for the Summer Term only.

Intimation of the days and hours of the several courses will be posted at the University and New College before the commencement of each Term. In order to facilitate the preparation of the time-table, and as certain of the courses are conditional on a sufficient number of students coming forward, applicants for admission to the School are required to give notice of the courses for which they desire to enter, and of their qualifications, to the Secretary not later than 1st August, 1st November, and 1st February, for the respective ensuing Terms, as given above.

For detailed list of Courses for 1919-20 and 1920-21, see special prospectus, to be had on application to the Secretary.

¹ These are: Autumn Term, October to December; Spring Term, January to March; Summer Term, April to June.

SCHOLARSHIPS, BURSARIES, AND PRIZES IN THE FACULTY OF DIVINITY.

I. Scholarships.

Note.—The values of Scholarships are stated approximately: the accuracy of the figures is not guaranteed.

Candidates must enter their names with the Dean of the Faculty at least one week before the date of the competition.

In the case of Scholarships, etc., the award of which has been deferred, preference will be given to candidates who were qualified at the time when, in ordinary course, the award would have been made. A period of War Service will not be counted in reckoning qualification.

Memoranda.

It has been arranged by the Senatus and the Faculty of Divinity, in regard to the undernoted Fellowships and Scholarships, that

1. The *Pitt Club Scholarship* shall be competed for when it falls vacant.
2. The *Aitken Scholarship* shall be reserved from competition when it falls vacant in the same year with the Pitt.
3. The *Glover Scholarship* shall (according to its conditions) not be open to competition when the Pitt or Maxton may be open.
4. The *Maxton Scholarship* is competed for when it is vacant.

SPECIAL NOTE.—The Scholarships are all vacant, and a number of these, including the Aitken or the Pitt, will be offered for competition in March 1920.

AITKEN.

This Scholarship, founded in 1875 by bequest of the Rev. David Aitken, D.D., formerly minister of Minto, is of the annual value of about £252 (under deduction of Examiners' fees). Its purpose is to make provision for the study of Church History and Biblical Criticism at one or more University Seats in Germany, or elsewhere on the Continent of Europe, in the case of meritorious students of Edinburgh University. It is to be awarded, after competitive examination (on due proficiency being shown), to a Student in Divinity of the University of Edinburgh, who is a Graduate in Arts of that University of not more than four years' standing. It is tenable for two years; but the Senatus may extend the term for another year if it appear to them desirable. The time of the competition will be fixed and publicly intimated by the Senatus at least three months before; and the Senatus are also at liberty to prescribe whether one Semester or two Semesters in the foreign University shall be attended in each year. It is not offered for competition in the same year as the Pitt Divinity Scholarship. See Deed of Foundation at p. 344 of CALENDAR for 1876-77.

BLACK (C. B.). See under **Faculty of Arts.**

BLACKIE (JOHN AND ELIZABETH STUART).

This Scholarship is of the value of about £150, and tenable for one year.

The candidates for the Scholarship shall be examined (1) on their general knowledge of Greek in so far as to be able to read any easy book of common prose *ad apturam*, and to translate into good English; (2) on their knowledge of the leading points of the History of the Greek people, Ecclesiastical and Political, from the commencement of the Christian era to the latest date.

Candidates must be Graduates in Arts of the University, and if, in the examination, there should chance to be a very near equality between two candidates, the one shall be preferred who has taken his M.A. degree with Honours. No M.A. shall be allowed to compete unless he be a *bona fide* student of Theology in any of the Scottish Presbyterian Churches, and shall have gone through a course of regular Theological study for one full Session, but no more.

The holder of the Scholarship shall be bound to reside for at least five months, dating from the 1st of November or the 1st of December, in the city of Athens, and there to attend regularly Historical or Philological Lectures in the University, besides devoting himself to the private study of the living Greek tongue, under a native Greek instructor.

The successful candidate shall receive six-tenths of the amount of the Scholarship immediately on his departure for Greece, three-tenths at the end of the third month of his residence, and the other tenth on his return to Scotland, always provided: That before receiving the second instalment, he shall present to the Senatus a certificate from the Professors or some trustworthy persons in the Greek metropolis, that he has regularly observed the conditions of the Scholarship, in respect of the living practice of the Greek language, to their complete satisfaction; and provided also that, before receiving the last tenth of the money, he shall have proved his command of living Greek to the satisfaction of some native Greek in London, Liverpool, or other city where Greeks are wont to congregate; and further, that he shall have delivered in the University Hall a public discourse on some interesting branch of Hellenic History — Civil or Ecclesiastical — or Philology, from the birth of Christ to the present hour.

BRUCE OF GRANGEHILL AND FALKLAND.

These Scholarships were founded in 1865 by Mrs Tyndall Bruce of Falkland, and are of the annual value of £100. They come into operation in the Faculty of Divinity only when a vacancy occurs in any one of the three Scholarships of this name in the Faculty of Arts, by the death, resignation, or dismissal of a Scholar during the period of his tenure of the Scholarship; and are tenable in the Faculty of Divinity during the remainder of that period. They cannot be held with any other Scholarship or Fellowship of a Scottish University, or with any situation yielding an income of £100 a year.

COBB.

This Scholarship, founded in 1889, is a bequest by the late Miss Matilda Johnston Cobb, Broughty Ferry. It is of the annual value of about £54 (under deduction of Examiners' fees), and is tenable for three years. The subjects of Examination are Hebrew, Greek, Latin, and Mathematics, and the Scholarship is open to competition amongst Students who are entering on the study of Divinity with a view to becoming Ministers of the Church of Scotland.

GLOVER.

This Scholarship was founded in 1875 by Subscribers to a Fund for commemorating the memory of the Rev. W. Glover, D.D., and by the University Endowment Association. It is of the annual value of about £60 (under deduction of Examiners' fees), tenable for three years, and open to all Masters of Arts of any of the Universities of Scotland who have finished their study of Theology, before entering the Church of Scotland, within six years, and who have attended the last Session of their course at least in the University of Edinburgh. It cannot be held with any other Divinity Scholarship or Bursary in any Scottish University, and it is not offered for competition in any year where there is a vacancy in the Pitt Divinity Scholarship or the Maxton Divinity Scholarship. See Deed of Foundation at p. 343 of CALENDAR for 1875-76.

GRAY SCHOLARSHIP FOR RESEARCH.

See under **Faculty of Arts.**

JEFFREY.

These Scholarships, two in number, were founded in 1887 by Miss Jane Jeffrey, of Victoria Terrace, Portobello. They are each of the annual value of about £120 (under deduction of Examiners' fees). The following are the Revised Regulations :—(1) The Scholarships shall be awarded to Students entering on the second year of their Divinity Course, and shall be tenable for two years. (2) The subjects of Examination shall be the same as those prescribed for the Grierson Bursaries of the second year in Hebrew, New Testament Greek, Ecclesiastical History, and Divinity. (3) In addition to the ordinary papers in each of these subjects, there shall be two supplementary papers. In one year these papers will be in the Department of Hebrew and New Testament Greek; and in the alternate year in the Department of Ecclesiastical History and Divinity. (4) In the summer following the appointment to a Jeffrey Scholarship, the holder thereof shall give attendance at a British or Foreign University, or shall carry out higher study under the supervision of the Professor in this University in one of the two subjects, in which he has shown special proficiency in the examination, and shall submit to the Faculty a Thesis embodying the results of his work. In October 1919 the subjects of Examination are as for the second year Grierson Bursary, with two additional papers as follows: (1) Hebrew—Genesis xxi.-xlv., Psalms i.-x.; (2) New Testament Greek—The Epistle to the Hebrews (Introduction, Exegesis, and Teaching). Translation *ad apturam*.

KEITH SCHOLARSHIPS.

These Scholarships, two in number, founded in accordance with the will of the late Miss Mary Keith, for the encouragement of theological learning, are each of the annual value of about £80. The following are the regulations for the Scholarships :—

- (1) The Scholarships are open to Graduates in Arts of this or any other University approved by the University Court, who have included Greek in their Arts curriculum and duly performed the work of the class during a complete session, and have completed two and not more than two sessions, of their course in Divinity at this or any other Scottish University.
- (2) The Scholarships are tenable for two years, one being open to competition each year.
- (3) They cannot be held along with any pastoral or parochial appointment, whether as Minister or Assistant, nor with any other Bursary, Scholarship, or Fellowship of any Scottish University during the first year of tenure, but may be held along with the Glover, Kidd, or Maxton Scholarship during the second year.
- (4) The Keith Scholars shall attend the class of Biblical criticism in the University during the Winter Session following their appointment, and thereafter undertake special study in some department of Biblical or Theological Greek Literature under the direction of the Professor of Biblical Criticism, with the view to the preparation of a Thesis to be submitted to the Faculty of Divinity, and shall also, if required by the Faculty, assist in the work of the Department of Biblical Criticism during the second year of tenure.
- (5) The Examination shall be held before the opening of the Winter Session, and shall be conducted by the Professor of Biblical Criticism, assisted by the Professors of Divinity and of Church History in turn. It shall consist of three papers, as follows :—
 (a) Translation *ad apturam* of passages in Greek of the Old and New Testaments, the Apocrypha, and the Fathers; (b) questions on prescribed books in the same departments of Greek Literature, including Translation, Introduction, Interpretation, Contents and Teaching; (c) a special prescribed subject in the Department of New Testament and Greek Patristic Theology.

KIDD.

This Scholarship, which is of the annual value of about £50 (under deduction of Examiners' fees), is tenable for three years, and is awarded, after competitive examination in Theology (same as for B.D.), to students of any of the Universities of Scotland who are natives of Scotland, and who have finished their course of study with the view of becoming Ministers of the Church of Scotland. See Deed of Foundation in CALENDAR for 1879-80, p. 354.

MACKENZIE. See under Prizes.

MAXTON.

This Scholarship was founded by the Trustees of the late John Maxton, Esq., in 1867, is of the annual value of about £52 (under deduction of Examiners' fees), and is tenable for three years. It is open only to Students who are members of the Church of Scotland, and who have completed the course of study in the Faculty of Divinity in the University of Edinburgh. See Deed of Foundation at p. 234 of CALENDAR for 1867-68.

PITT CLUB.

This Scholarship was instituted in 1862 by the Pitt Club, is of the annual value of about £216 (under deduction of Examiners' fees), and tenable for three years. It is open to competition to all Masters of Arts of any of the Universities of Scotland who have given regular attendance in the Faculty of Divinity in the University of Edinburgh for three complete Sessions, and who are in the course of studying with the view of becoming Clergymen of the Church of Scotland. No person is admissible who has been entered as a Student of Divinity more than six years prior to the time of the competition.

Candidates are examined on (1) The Evidences of Revealed Religion ; (2) Systematic Theology ; (3) Hebrew ; (4) Church History ; (5) Biblical Criticism. It cannot be held with any other Scholarship, Fellowship, or Bursary of any Scottish University, or along with any parochial or pastoral charge, whether as minister or assistant.

**VANS DUNLOP SCHOLARSHIP IN HEBREW AND ORIENTAL
(SEMITIC) LANGUAGES.**

(See under **Faculty of Arts.**)

WARDLAW BEQUEST for behoof of indigent and deserving Students. (See under **Faculty of Arts.**)

II. Bursaries.

Notes.—(1) The values of Bursaries are stated *approximately*.

- (2) When no statement is made to the contrary, the Patronage is in the hands of the Senatus.
- (3) None of the Bursaries in the Faculty of Divinity shall be tenable along with any other Bursary or Scholarship, except with the consent of the Faculty and the Senatus.
- (4) Presentation, as distinguished from Competition, Bursaries are indicated by the word *Presentation*.

SPECIAL NOTE.—Owing to the almost total depletion of the Divinity Hall during the War, most of the Bursaries are vacant. Not less than one-third of the whole, including a Webster Bursary of about £90, and an Ettles of £84, will be offered for competition in October 1919.

The Bursary Examination at the beginning of Session 1919-1920 will be held on Monday, 13th, and Tuesday, 14th October, commencing on Monday at 2 P.M., and on Tuesday at 10 A.M.

Names of Candidates must be intimated to the Dean not later than 30th September.

The Subjects of Examination for ordinary Competition Bursaries open to First Year Students are as follows:—

- (1) *Latin*—Tertullian's *Apologeticus*, and translation from English into Latin prose.
- (2) *Greek Testament*—Acts of the Apostles, James, and translation *ad aperturam*.
- (3) *Moral Philosophy*—Seth's *Study of Ethical Principles*.
- (4) *Hebrew*—Davidson's *Grammar* and Exercises ; Genesis i., ii.
- (5) *Apologetics*—Flint's *Theism*.

ALEXANDER. (*Presentation.*)

Founded in 1766, by the Rev. Robert Alexander, Minister of Girvan. One Bursary : about £32 a year, for 4 years. Patrons, the Kirk-session of Girvan, and Presbytery of Ayr.

It must be held by a Student from the parish of Girvan, presented by the Session ; whom failing, by one within the Presbytery of Ayr, to be appointed by the Presbytery.

ARCHIBALD OR M'GUFFIE.

Founded in 1914 by the Rev. George M'Guffie. One Bursary : about £34 a year, for 3 years.

A preference will be given to students bearing the name of Archibald or M'Guffie, who have been born in one of the parishes of Dollar, Tillicoultry, or Whithorn, or educated in any of the schools of these parishes ; whom failing, to any youths born in any of the said parishes or educated in any of the said schools, although not bearing either of the said names. See Deed of Foundation, p. 799 of CALENDAR for 1914-15.

1919, JAMES E. MACKINNON, M.A.

BAYNE. (*Presentation.*)

Founded in 1695, by Robert Bayne of Pitcairley. One Bursary of about £34 a year, for 3 years. Patrons, the Society for the Benefit of the Sons of the Clergy. The holder must be the son of a Minister of the Church of Scotland.

The Bursary is open only to Graduates, or to Students who have passed the necessary Examinations for the Degree of M.A., but have deferred their Graduation with a view to Honours. Each Bursar shall hold the Bursary for three years, subject to the condition that he shall, during that period, give regular attendance as a Student in Theology in the University of Edinburgh. No person shall hold the Bursary along with any other Bursary, or with any Scholarship in the University.

BLAIR. (*Presentation.*)

Founded in 1838, by Robert Blair, D.D., Barton St Andrews, Norfolk.
Two Bursaries :—

(1) £16 a year, appointment annual, but renewable. Patrons, the Governors of George Heriot's Trust. The Bursary can be held only by a young man who has been educated in George Heriot's Hospital School and has become a Student of Divinity in the University of Edinburgh.

(2) About £17 a year, for 4 years. Patrons, the Principal, and the Professors of Hebrew, Divinity, and Church History. The Bursary is to be applied for the benefit of a Student of Divinity, whether a Graduate or not.

BROWN.

Founded in 1900, by Miss Janet M. Brown of Spring Gardens, Edinburgh. Three Bursaries : each £16, for 1 year.

One Bursary is awarded annually to a Student of the first year, one to a Student of the second year, and one to a Student of the third year.

1918, JAMES MILLER.

BUCHANAN.

Founded in 1646, by Buchanan of that Ilk. One Bursary : about £23 a year, for 3 years. Patrons, the Town Council of Edinburgh.

The Bursary is open for competition to all Masters of Arts of any of the Universities of Scotland, or to Students who have passed the necessary Examinations for the Degree of M.A., but have deferred their Graduation with a view to Honours, and who are entering on their first or second Session in the Faculty of Divinity in the University of Edinburgh. No person is admissible to competition who has for more than one Session been a Student in the Faculty of Divinity in any of the Scottish Universities. The Bursar holds the Bursary for three years, subject to this condition, that he shall, during that period, give regular attendance, as a Student of Theology, in the University. If it appears to the Senatus Academicus desirable, for the purpose of distributing the benefits of competitive Bursaries in Theology among Students of different years, it is lawful, for that purpose only, to appoint a Student for a shorter period. No person can hold the Bursary along with any other Bursary, Fellowship, or Scholarship in any Scottish University.

ETTLÉS.

Founded in 1867, by Miss Mary Ettles of Inverness, in memory of her brother, J. Ettles, Esq., of Havannah. Three Bursaries : each about £64 a year, for 3 years.

A Bursary is awarded annually to a Student who has passed all the examinations for M.A., and is beginning the first year of his theological course. The Bursaries cannot be held with any other Bursaries or Scholarships.

1919, CHARLES M. HEFURN, M.A.

GAELIC (CHURCH OF SCOTLAND).

The Trustees of the Association for founding Bursaries for Gaelic-speaking students in connection with the Church of Scotland will award a Bursary of £15 per annum to a student who has entered, or is about to enter, the Divinity Hall in any of the Scottish Universities, the Bursary being tenable for the remainder of his Divinity curriculum. It will be competed for at an examination in Gaelic, to be held on a date to be fixed in the beginning of October next. Applicants must satisfy the Trustees that they intend qualifying for the Ministry of the Church of Scotland. Application must be made to Alan L. Menzies, W.S., 54 Castle Street, Edinburgh, from whom information may be obtained of the date of the examination.

GRIERSON.

Founded in 1873, by Grierson of Ogcastle's Trustees. Three Bursaries: each £26, 13s. 4d. (see below).

The Bursaries are one for first, one for second, and one for third year Students in Divinity. A Student from the Parish of Crawford or the Parish of Leadhills is, if he has been a good Student in Arts, and is in need of pecuniary aid, appointed to a Bursary in his first year in Divinity, and holds it (unless he has failed to show himself a diligent Student) to the end of his curriculum. If there be two or more such applicants in any year, they are to be examined. Failing any Student from one of those favoured parishes, the Bursary or Bursaries will be thrown open to competition, but the winner only holds his Bursary for one year. In the second year a Student from Crawford or Leadhills has again a preference, but holds the Bursary for one year only. Preferential Candidates must lodge their applications with the Dean on or before 14th September.

The subjects of Examination for the Bursaries, if there be competition, will be:—

For the first year—

Same as for ordinary Competition Bursaries.

For the second year—

- (1) *Greek Testament*—The Gospel of Mark, and Galatians.
- (2) *Hebrew*—Davidson's *Grammar*, Genesis xii.-xx., and Ruth.
- (3) *Divinity*—The Synoptic Teaching of Jesus.
- (4) *Ecclesiastical History*—To 325 A.D.

For the third year—

- (1) *Apologetic Theology*—Paley's *Christian Evidences*.
- (2) *Hebrew*—1 Sam. i.-xiv.; Psalms xlii.-lx.
- (3) *Ecclesiastical History*—To 325 A.D., and—of Scotland—1500 A.D. to 1600 A.D.
- (4) *Biblical Criticism*—The Epistle to the Romans (Introduction, Exegesis and Teaching).

HEPBURN.

Founded in 1838, in 1858, and in 1864, by J. Stewart Hepburn of Calquhalzie, Esq. Three Bursaries: each £20 a year, for 3 years. Patrons, The Presbytery of Edinburgh.

The sums attached to these Bursaries are payable to Divinity Students of the Church of Scotland. For one Bursary, Gaelic-speaking Students have a preference. The examination is the same as in the General Bursary Competition, with a supplementary paper on the Gospels. For particulars, apply to Rev. William Main, Clerk to Presbytery of Edinburgh, 11 Fountainhall Road, Edinburgh, before 1st October.

HUNTER.

Founded in 1884, by Robert Hunter, Dalhousie Chesters. Two Bursaries: each about £47 a year, for 2 years.

These Bursaries are for the benefit of Students of the Church of Scotland, and are awarded at the close of the first Session in Divinity. Bursars must attend two Sessions in Chemistry and Geology, taking at least one of these Classes each Session. Students of the name of Hunter and Hamilton, from the parishes of Temple or Cockpen, have a preference, but preferential Candidates must attain to a fixed percentage. Bursars must produce certificates of diligence in the Classes of Chemistry and Geology. See excerpt from Deed of Foundation, p. 437 of CALENDAR for 1885-86.

KING WILLIAM III.

Founded in 1695, by King William III. Two Bursaries: each about £43 a year, for 2 years.

Each Bursary is open to competition to all Masters of Arts of any of the Universities of Scotland, or Students who have passed the necessary examinations for the Degree of M.A., and who have attended for one session, and no more, in the Faculty of Divinity in the University of Edinburgh: Provided that no person shall be a competitor who has attended for one or more sessions in the Faculty of Divinity in any other of the Scottish Universities. The examinations in the competition shall be conducted by the Professors in the Faculty of Divinity in the University. Each Bursar shall hold his Bursary for two years, subject to the condition that he shall, during that period, give regular attendance as a Student of Theology in the University. No person shall hold either of the Bursaries along with any other Bursary, Fellowship, or Scholarship of any Scottish University. When the two Bursaries fall vacant at one time, one Bursar shall be appointed for two years, and the other for one year.

LOCKERBY.

Founded in 1892, by Thomas Lockerby, London. One Bursary: about £30 a year, for 3 years.

The Bursary is open to "Students who desire to become ministers of the Church of Scotland only." See Excerpt from Disposition, p. 345 of CALENDAR for 1890-91.

MACKIE.

Founded in 1910, by William Mackie, of Knockgerran, Ayrshire. One Bursary: £45 a year, for 3 years. Patrons, The Presbytery of Ayr.

The Bursary is to be held by a student studying for the ministry of the Established Church of Scotland, during the period of his attendance at the Divinity Course. Preference is given, in the first place, to a student who is a native of, or whose parents or parent reside or resides in (1) the Parish of Dailly, or (2) the Parish of Barr, or (3) the Parish of Girvan; and, failing all these three parishes, then to any student who is a native of, or whose parents or parent reside or resides within the bounds of the Presbytery of Ayr, preference being given to students who are natives of, or whose parents or parent reside or resides in Carrick. Applications to be made to, and Regulations for Examination to be obtained from, the Rev. Charles Goodall, B.D., Minister of the Parish of Dailly, Ayrshire, or to D. & J. Dunlop, Solicitors, Ayr, before the end of September.

M'KISSACK. (*Presentation.*)

Founded in 1902, by Mrs Jane M'Kissack, Nairn. One Bursary: £20 a year, for 4 years. Patrons, the M'Kissack Trustees.

The Bursary is given for assisting Candidates in preparing for the office of a Christian Missionary to the Jews, and is tenable at any College, University, or Theological Seminary adapted to such preparation. A preference is given to a Medical Candidate, and also to a Candidate of the name of M'Kissack. Further information may be obtained from Messrs Lamb & Co., Solicitors, Nairn.

MACLAINE (GILLIAN).

Founded in 1878, by Angus MacLaine, Esq., of Fasdacale, Argyllshire, in memory of his brother, Gillian MacLaine, merchant abroad. Two Bursaries: each £50 a year, for 3 years.

The Bursaries, tenable in any Scottish University, are open to Gaelic-speaking young men purposing to study for the ministry of the Church of Scotland. For Examination Syllabus, etc., apply to Very Rev. James C. Russell, D.D., 9 Coates Gardens, Edinburgh.

M'LURG AND PENMAN. (*Presentation.*)

Founded in 1715 and 1764, by Sir James M'Lurg, of Vogrie, sometime Dean of Guild of Edinburgh; and the Rev. John Penman, minister of Bothkennar. One Bursary: £24 a year, for 4 years. Patrons, Brig.-General R. G. Gordon Gilmour of Craigmillar, 1st and 3rd Presentations; the Dean of Guild of Edinburgh, 2nd Presentation.

No person shall be presented to the Bursary who is not a Master of Arts of a Scottish University.

MILLER.

Founded in 1870, by John Miller, Esq., of Burgo Park, Bridge of Allan. Four Bursaries: each about £30 a year, for 4 years. Patrons, the Magistrates and (Protestant) Ministers of Thurso.

The Bursaries are open to Students of any Presbyterian Church, preparing for service in the foreign field. In the choice of young men suitably qualified, the County of Caithness shall have the first preference, then the County of Sutherland, then the County of Ross, then the County of Shetland and Orkney; failing all which, the selection may take place from any part of Scotland. Further particulars may be had on application to Wm. M. Brims, Solicitor, Thurso.

MYLNE.

Founded in 1879 by Mrs Barbara Macaulay or Mylne, in memory of her husband, the Rev. Andrew Mylne, minister of the Parish of Dollar. One Bursary: £40 a year, for 3 years. Patrons, the Moderator, Procurator and Principal Clerk of General Assembly.

The Bursary (being the free proceeds of £750) which is for behoof of Students for the ministry of the Church of Scotland, of Scottish birth, tenable during the curriculum in Divinity, is awarded at the end of the session, after examination (of first year students) on the subjects taught in the Theological Classes during the session. No one may become a Candidate who has not given his whole time to study during the session preceding the date of Examination, nor may the holder engage in paid work during any session in which he holds the Bursary. It cannot be held along with any other Bursary, Scholarship, or Endowment. See Deed of Foundation, p. 377 of CALENDAR for 1880-81.

NAIRNE (AGNES). (Presentation.)

Founded in 1703, by Agnes Nairne.

The Bursary is at present in abeyance.

NAIRNE (JAMES). (Presentation.)

Founded in 1695, by James Nairne. One Bursary: £16, 8s. a year, for 3 years. Patron, the Professor of Divinity.

The Bursary is open only to Graduates, or to Students who have passed the necessary Examinations for the Degree of M.A., but have deferred their Graduation with a view to Honours. It is tenable for three years, or for such period as the Bursar shall give regular attendance as a Student of Theology in the University of Edinburgh. See Ordinance, No. 67, of the Universities' Commissioners, and subsequent Order in Council.

RAMSAY.

Founded in 1687, by Andrew Ramsay and Sir Andrew Ramsay of Abbotshall. One Bursary: about £27 a year, for 3 years. Patrons, the Town Council of Edinburgh.

The Bursary is open for competition to all Masters of Arts of any of the Universities of Scotland, or to Students who have passed the necessary Examinations for the Degree of M.A., but have deferred their Graduation with a view to Honours, and who are entering on their first or second Session in the Faculty of Divinity in the University of Edinburgh. No person is admissible to competition who has for more than one Session been a Student in the Faculty of Divinity in any of the Scottish Universities. The Bursar holds the Bursary for three years, subject to this condition, that he shall, during that period, give regular attendance, as a Student of Theology, in the University. If it appears to the Senatus Academicus desirable, for the purpose of distributing the benefits of competitive Bursaries in Theology among Students of different years, it is lawful, for that purpose only, to appoint a Student for a shorter period. No person can hold the Bursary along with any other Bursary, Fellowship, or Scholarship in any Scottish University.

RENTON.

Founded in 1882, by William Renton, of 20 Royal Terrace, Edinburgh. One Bursary : about £34 a year, for 3 years. Patrons, the Professors of Theology.

The Bursary may be held for three years, if the Bursar continues so long to prosecute his studies in Theology at the University of Edinburgh, with a view to the ministry in the Church of Scotland, and if not, then for the whole period he continues at the same. The student presented must have attained the age of sixteen, and not exceed the age of twenty-one years, and must be appointed after an examination in the month of November on such subjects as the Professors of the Faculty of Theology consider proper.

1913, J. M. Gow, M.A.

SHARP.

Founded in 1856, by John Sharp, Esq., Perth. One Bursary : £18 a year, for 4 years. Patrons, the Presbytery of Perth.

The Bursar must be a Student of Divinity of the Church of Scotland, and may prosecute his studies at any one of the Scottish Universities. Preference is given to any student of the name of Sharp or Sim, or, failing such, to one being a native of or subject to the jurisdiction of the Presbytery of Perth. Apply to the Clerk to the Presbytery of Perth.

SIMSON.

Founded in 1889, by James Simson, Edinburgh.

(No Bursaries are at present awarded in Divinity ; but see Simson Bursaries in Faculty of Arts.)

STRUTHERS AND LEIGHTON.

Founded in 1666 and 1685, by William Struthers and Archbishop Leighton respectively. One Bursary : £27 a year, for 3 years. Patrons, the Town Council of Edinburgh.

The Bursary is open by competition to all Students who are Masters of Arts, or who have passed all the examinations necessary for admitting them to the degree of Master of Arts, and who are entering on their first session of attendance in the Faculty of Divinity in the said University.

THOMSON.

Founded in 1878, by Dr Andrew Thomson. Four Bursaries: each £25 a year, for 4 years. Patrons, the Trustees of Dr Thomson.

Students of the name of Thomson or Traquair, or who are natives of the town or county of Dumfries, or of the city of Edinburgh have a preference. The Candidates must be matriculated Students (not necessarily Graduates) entering on their first Session in Divinity, and are required to intimate their intention to compete to the Agents for the Trustees, Messrs Traquair, Dickson & Maclaren, W.S., 11 Hill Street, Edinburgh, one week before the date of Examination. If no Candidate with a preferential claim appear, or if none such attain to the required standard in the Examination, the Bursary will be awarded to the best non-preferential Candidate attaining such standard. The subjects of examination are Latin (100 marks), Moral Philosophy (50 marks), Elementary Hebrew (100 marks), Apologetics (100 marks), and Greek Testament (100 marks). See page 374 of CALENDAR for 1880-81.

1916, A. D. M'MURRAY.

WEBSTER.

Founded in 1878, by Mrs Isabella Webster, 38 Heriot Row, Edinburgh, in memory of her husband, George Webster, Esq. Three Bursaries: two, each of about £92 a year, for 3 years; one of about £61 a year, for 3 years. The Bursaries are open to Students of Divinity in connection with the Church of Scotland, in their first year, who have successfully passed all their examinations for the degree of M.A. in any Scottish University, whether they have actually graduated or not. See Deed of Foundation in CALENDAR for 1878-79, p. 377.

1916, J. P. WATSON, M.A.

1919, REGINALD E. WHITELEY, M.A.

The following ARTS BURSARIES are also tenable in the Faculty of Divinity:—

Campbell	Grant	Maule
Chrystie	Jamieson	Muirhead-Aitken.
Fraser (Thomas)	Lanarkshire	Sibbald
Glenbuck	Maclaurin	Strang Steel

III. Prizes.

BARTY MEMORIAL PRIZE.

This Prize, of about £20, for scholarship in Hebrew and Hellenistic Greek, is open to entrants to the Divinity Halls of the four Scottish Universities.

GRAY ESSAY PRIZES. (See under Faculty of Arts.)

GUNNING VICTORIA JUBILEE PRIZES.

With a view to promote the study of Natural Science among candidates for the ministry, and to bring out among ministers the fruits of study in Science, Philosophy, Language, Antiquity, and Sociology, Dr R. H. Gunning, of Edinburgh, and Rio de Janeiro, has founded ten prizes in the Faculty of Divinity of the University of Edinburgh, to be known as "The Gunning Victoria Jubilee Prizes."

These prizes are ten in number, and comprise a series of five prizes of £50, £40, £30, £20, and £10, for excellence in Theological subjects, and a series of five prizes of similar values for excellence in Natural Science subjects. In their order, the prizes in each series correspond in value. A minimum standard of proficiency will be required in each series. The successful competitors may each take both the prize in the Theological, and the prize in the Natural Science series, to which their marks may respectively entitle them.

The prizes are competed for triennially, at the close of the Divinity Session, and are open to all Students of the Church of Scotland, or other Scottish Churches holding the Confession of Faith, who are graduates of this University, or have attended two classes in the Faculty of Divinity in this University, and who have completed their Theological curriculum within two years of the close of the Session when the competition takes place.

Candidates must enter both for the Theological and Science subjects, and a minimum of proficiency is required in each.

The examination in the Natural Science series will be on Natural History, Botany, and Geology, and of the same standard as the First B.Sc. Examination in pure Science. The examination in the Theological series will be in Theology proper, the Language and Literature of the Old Testament, Ecclesiastical History, and Biblical Criticism.

The Examiners are the Professors of the subjects of examination in the University of Edinburgh, with the addition of a member of the Senatus of the New College, to be appointed by the Faculty of Divinity. See Revised Scheme, page 519 of CALENDAR 1889-90.

The date of the next competition will be announced later.

Third Prize in Theological Subjects, and Fifth Prize in Natural Science Subjects.

1914, *Theological Series*—Second Prize, J. S. EWEN, M.A., B.Sc., B.D.
Third Prize, JAMES CAMPBELL, M.A.

Science Series—Second Prize, J. S. EWEN, M.A., B.Sc., B.D.
Fifth Prize, JAMES CAMPBELL, M.A.

HEPBURN PRIZE.

This Prize, of £20 (which may be divided), is competed for by students of the second or third year. The subject for Session 1919-20 is—"The Treatment in Scottish Theology down to Hill's 'Institutes' of the Nature and Limitations of the Powers of the Church, especially of the *Potestas Dogmatica*." The essay must not exceed fifty pages 4to, and is to be lodged with the Rev. William Main, 11 Fountainhall Road, Clerk to the Presbytery of Edinburgh (from whom further particulars may be obtained), on or before 1st December 1919.

1915, JOHN YOUNIE, M.A.

LORD RECTOR'S PRIZE.

(See under **Faculty of Arts.**)

MACKENZIE SCHOLARSHIP OR PRIZE. (Open Oct. 1919.)

This prize, founded under the will of the late Miss Eliza Bennie Mackenzie, Broughty Ferry, in memory of her brother, the late Reverend John Mackenzie, sometime minister of the Parish of Kettins, and of the value of about £25, is offered for an Essay on a prescribed subject connected with the history of the Christian Church, or the forms of worship thereof, or some special department of the Church's work. It is open annually to men studying for the ministry of the Church of Scotland in the Divinity Halls of any of the four Scottish Universities, or to any probationer of the Church of Scotland, within a year after completion of studies in such Institution.

Essays of competitors must be lodged with the Agents not later than 15th October.

The subject for 1919 is—"John Willison of Dundee: His Life and Works."

For regulations, etc., apply to Messrs J. & J. Ogilvie, Solicitors, 13 Albert Square, Dundee.

The attention of all Scholars and Bursars in the Faculty of Divinity is particularly called to the following Regulation:—

Each Scholar or Bursar, when he applies to the Factor for a payment, must produce a Certificate, signed by the Dean, or the Professor to whose department the Foundation is attached, attesting his regular attendance on the proper Classes, etc., or otherwise that he has fulfilled the conditions attached to the Foundation. Payments are made by the Factor for the University, Sir Henry Cook, W.S., 61 Castle Street, Edinburgh, on and after 15th November for the Martinmas payments, and on and after 18th May for the Whitsunday payments,—between 10 and 3 o'clock.

N.B.—Bursars, Scholars, and Fellows who desire to resign should at once announce this to the Factor. They must apply to the Factor for the instalments due to them within three months after they have become payable: otherwise they will be regarded as having resigned.

FACULTY OF LAW

DEAN—PROFESSOR JAMES MACKINTOSH, K.C., LL.D.

PROGRAMME OF CLASSES

WINTER SESSION, 1919-1920.

*The Classes will be opened as follows, and will meet, unless otherwise stated infra, on five days in the week.
Classes will meet for the last time before the Christmas vacation on Saturday, 20th December 1919, will
re-assemble on Tuesday, 6th January 1920, and will be closed on Saturday, 20th March 1920.*

CLASSES.	Days of Opening and Hours of Lectures.	Professors and Lecturers.	Class Fees. ¹ See also p. 520.	See also page
Public Law (i.e., a half-course in Jurisprudence, and a half-course in Public International Law)	15 Oct., 2 o'cl.	{ Prof. Sir Ludovic J. Grant, Bart. }	£4 4 ²	498
Civil Law	15 Oct., 9 o'cl.	Prof. Mackintosh	5 5 ³	496
Scots Law	15 Oct., 9 o'cl.	Prof. Rankine	5 5 ³	497
Constitutional Law and Constitutional History	15 Oct., 5 o'cl.	Prof. Millar	4 4 ²	499
Conveyancing	15 Oct., 9 o'cl.	Prof. Mounsey	4 4 ²	497
Political Economy	14 Oct., 9 o'cl.	{ Prof. Nicholson }	4 4 ²	190
Political Economy (Honours Course) (Monday, Tuesday, Thursday)	16 Oct., 11 o'cl.	. . . . .	3 3 ²	192
Ancient (Scottish) History (Honours Course) (Monday, Wednesday, Friday)	15 Oct., 4 o'cl.	{ Prof. Hannay }	3 3 ^{4 5}	226
Palaeography (Tuesday, Thursday)	14 Oct., 4 o'cl.	. . . . .	2 2 ^{4 5}	226

CLASSES.	Days of Opening and Hours of Lectures.	Professors and Lecturers.	Class Fees ¹		See also page
			See also p. 530.	p. 530.	
Evidence and Procedure (<i>Tu., Wed., Th.</i>)	15 Oct., 5 o'cl.	W. J. Lewis, B.L.	2	2 ⁴	501
Mercantile Law	15 Oct., 5 o'cl.	Henry Aitken, K.C.	4	4	502
English Law	15 Oct., 9 o'cl.	H. Burn Murdoch, B.A., LL.B.	5	5 ³	502

SUMMER SESSION, 1920.

The Classes will open as follows, and will close on Tuesday, 20th July.

¹ Second attendances: On £5, 5s. or £4, 4s. Courses £3, 3s.; on £3, 3s. Courses £2, 2s. On Half-Courses: First half, no reduction; second half, £1, 1s.; on Procedure and Evidence, International Private Law, and Administrative Law, second attendances, £1, 1s. 6d.; third or subsequent attendances, on any Class, £1, 1s.

² For a Half-Course, £2, 2s.

³ This Fee is paid in Winter, and includes the Winter and Summer Sessions. Fee for Winter Session only, £4, 4s.; for Summer Session only, £2, 2s.

⁴ Five shillings University entrance fee for non-matriculated students. (See page 16.)

⁵ Fee for both Courses, if taken in one Session, £4, 4s.

CLASS FEES IN THE FACULTY OF LAW.

All students who began their curriculum in any academic year before 1912-13, shall continue to pay the normal class fees as they have been fixed hitherto (see Programme of Classes, pages 518 and 519).

All students who began their curriculum in the academic year 1912-13, or any subsequent year, and *who intend to pursue a regular course with a view to graduation in Law*, shall pay an Inclusive Fee in place of the fees for separate classes.

The Inclusive Fee for the curriculum for the LL.B. Degree is thirty guineas, payable in three annual instalments of ten guineas each.

The Inclusive Fee for the curriculum for the B.L. Degree is twenty-two guineas, payable in one instalment of eight guineas, and two instalments of seven guineas.

The Inclusive Fee for the curriculum for the combined Degrees of M.A. and LL.B. is fifty guineas, payable in five annual instalments of ten guineas.

The Inclusive Fee for the curriculum for the combined Degrees of M.A. and B.L. is forty-five guineas, payable in four annual instalments of ten guineas, and a fifth instalment of five guineas.

All fees, whether instalments of an Inclusive Fee or normal class fees, are payable in advance.

No student who began his curriculum in the academic year 1912-13, or any subsequent year, will be admitted to a Degree Examination in any year, until he has paid in full the instalment, if any, of the Inclusive Fee payable in respect of that year and of every preceding year of his curriculum.

No student who began his curriculum in the academic year 1912-13, or any subsequent year, will be admitted to graduation until the whole of the Inclusive Fee has been paid.

The above Inclusive Fee will admit to all classes which are necessary or desirable as parts of a curriculum leading to the LL.B. or B.L. Degrees, and are approved of as such by the Dean of the Faculty.

A student may attend a non-graduating class, or any class in addition to those approved as necessary or desirable parts of a curriculum leading to the Degree, on payment of the normal class fee.

The Inclusive Fees for the Degrees of LL.B. and B.L. will cover a second attendance at not more than one class, but will not cover a third or subsequent attendance. The fees for such second or subsequent attendances remain as before (see footnotes, page 519).

A student who has paid one or more of the annual instalments of the Inclusive Fee at one Scottish University and completes his curriculum in this University, shall be required to pay the remainder of the annual instalments to this University, and these shall cover admission to such classes as may be approved by the Dean as necessary or desirable to complete his curriculum for the Degree; provided always (1) that the amount of at least one annual instalment shall be paid to this University; (2) that before he receives his Degree therein, he shall present evidence that he has paid in all an amount equal to the Inclusive Fee; and (3) that the number of classes taken in this University shall be proportionate to those instalments of the Inclusive Fee which are paid to this University.

A student who presents a certificate that he has attended a course of instruction qualifying for graduation in Law, given in a recognised University or School of Law, shall be entitled to a deduction from the Inclusive Fee of the amount paid for such course of instruction, being not in excess of the amount of the normal fee for the corresponding course given in this University, provided always that he has not already attended the latter course as part of his curriculum in this University.

COURSES OF LECTURES.

CIVIL LAW.

PROFESSOR MACKINTOSH, K.C., LL.D.

The complete Course on the history and principles of Roman Law occupies three Terms, extending over the Winter and Summer Sessions, and is covered by one fee of £5, 5s. Attendance during two Terms qualifies for admission to the Degree Examination, but students are strongly recommended to take the full Course. It is divided as follows :—

I. HISTORY.—This Course, given during the Autumn Term, includes a sketch of the Constitutional and Legal History of Early Rome ; a survey of the primitive law in its various branches ; and a discussion of the Sources of the law, the rise and progress of Jurisprudence, Codification, and other topics belonging to the external history of the civil law down to the reign of Justinian. It is intended to serve as an historical introduction to the study of the special departments mentioned below.

II. INSTITUTES.—The remainder of the Course is devoted to a systematic exposition of the law (1) of Persons and the Family Relations, (2) of Property and Real Rights, (3) of Wills and Succession, and (4) of Obligations *ex contractu* and *ex delicto*.

These subjects are dealt with during the Spring and Summer Terms. The order in which they are taken alternates from year to year, so that attendance for two successive Summer Sessions constitutes a full Course on the Institutes

The Lectures are adapted to the requirements of students qualifying for the legal profession in Scotland or England, or for service in India or the Colonies.

Textbooks.—Study of the *Institutes* of Gaius and Justinian and of certain Titles of the *Digest* in the original is expected. The Professor's *Roman Law of Sale*, Girard's *Droit romain*, and Sohm's *Institutes* (tr. by Ledlie, Clarendon Press), may be consulted. In connection with the Historical Lectures, students are referred to Muirhead's *Historical Introduction to the Private Law of Rome*, and Maine's *Ancient Law*.

The "Muirhead Prize" and the "Forensic Prize" are offered annually for competition.

SCOTS LAW.

PROFESSOR RANKINE, K.C., LL.D.

Students are recommended to make themselves familiar either with Erskine's *Principles* or his *Institutes* (edition by J. Badenach Nicolson, Esq., 1871). The twenty-first edition of the former work will be the textbook of the Class.

1. Sketch of the Literature of the Law of Scotland—the Sources of the Law—the Interpretation of Statutes.

2. Personal Relations—Marriage and the modes of proving it—Patrimonial effects of Marriage—Rights of Husband and Wife—Dissolution of Marriage—Divorce—Tutors and Curators—Minors—Insane—Parent and Child—Succession—Heritable and Moveable—Wills—Trusts.

3. Wrongs—Personal Injury—Defamation—Ownership of Heritable Property—Rights and Liabilities incident thereto—Ownership of Moveables—Copyright—Patents.

4. Obligations and Contracts—General Requisites, Constitution, and Construction—Agency—Partnership—Joint-Stock Companies—Sale—Letting to Hire—Leases—Carriers—Shipping—Insurance—Bills of Exchange—Extinction of Obligations—Diligence—Bankruptcy.

5. Criminal Law.

Summer Session.

The Lectures on Criminal Law, and part of the Lectures on the above subjects, are delivered during the Summer Session.

CONVEYANCING.

PROFESSOR MOUNSEY.

Definition, data, and postulates of Conveyancing. History, principles, and forms of Writs relating to (1) Feudal Tenure and Ownership; (2) Allodial Ownership; (3) Conventional Burden and Restraint on Ownership, including Real Burden, Real Security, Trust, Entail; (4) Engagement and Contract affecting property; (5) Succession; (6) Matrimonial and Testamentary Settlement; and (7) Real Diligence and Sequestration, so far as operating conveyance of property or restraint on ownership.

Erskine's *Principles*; Menzies', Bell's, or Wood's Lectures; Craigie's or Burns' Handbooks; Kirkpatrick on Evidence.

PUBLIC LAW.

PROFESSOR SIR LUDOVIC J. GRANT, BART., LL.D.

Two Courses will be delivered during the year:—(1) General Jurisprudence (Philosophy of Law), Oct.-Dec. 1919; and (2) Public International Law, Jan.-March 1920.

1. The Course on Jurisprudence will begin on Wednesday, 15th October 1919, at two o'clock.

- (1) The Nature and Scope of Jurisprudence.
- (2) The Conception of Law—The State and the Administration of Justice.
- (3) The Material Sources of Law—Custom—Juridical Interpretation—Judicial Decision—Legislation, Sovereign and Subordinate.
- (4) Modes in which Law expressed—Statute Law and Case Law—Relative Merits and Defects of the two Types.
- (5) The Theory of Rights—Legal Personality—Acts and Events—Varieties of Rights.
- (6) The Theory of Liability—Crimes and Civil Injuries—Intention and Negligence.
- (7) Archaic Law and Early Institutions
- (8) The Theory of Legislation—Punitive Justice—Rationale of Property, etc.

Books of Reference.—Austin, *Lectures on Jurisprudence*; Holland, *Jurisprudence*; Markby, *Elements of Law*; Salmond, *Jurisprudence*; Jethro Brown, *The Austinian Theory of Law*; Bryce, *Studies in Jurisprudence and Ethics*; Sir Henry Maine's works; Pollock, *History of Political Science*, and *First Book of Jurisprudence*; Gray, *Nature and Sources of the Law*; Lightwood, *The Nature of Positive Law*; Dicey, *Law of the Constitution*; Jenks, *Law and Politics in the Middle Ages*; Sidgwick, *Elements of Politics*; Korkunov, *The Theory of Law*.

2. The Course on Public International Law will begin on 6th January 1920.

- (a) Historical Introduction. (b) Preliminary Topics. (c) An examination of the sources and a critical exposition of the leading doctrines of Public International Law.

Books of Reference.—Nys, *Les Origines du Droit International*; Walker, *History of the Law of Nations*; Phillipson, *International Law and Custom of Ancient Greece and Rome*; Westlake, *Inter-*

national Law; Bryce, *Holy Roman Empire*; Hall, *International Law*; Wheaton, *International Law*; Lawrence, *Principles of International Law*; Rivier, *Principes du Droit des Gens*; Nys, *Droit International, Principes Théories, Faits*; Hertslet, *Map of Europe by Treaty*; Pitt Cobbett, *Select Cases*; Scott, *Cases in International Law*; Holland, *Studies in International Law*; Oppenheim, *International Law*; Whittuck, *International Documents*; Pearce Higgins, *The Hague Peace Conferences, etc.*; Spaight, *War Rights on Land*.

CONSTITUTIONAL LAW AND CONSTITUTIONAL HISTORY.

PROFESSOR MILLAR.

This Course qualifies for Graduation in Law or in Arts. For Graduation in Arts the two Courses of British History and Constitutional Law and Constitutional History constitute a "double Course in Cognate Subjects" (see Additional Regulations for Degrees in Arts, III.). The Class meets on Tuesdays, Wednesdays, Thursdays, and Fridays at 5, during the Autumn and Spring Terms. The work prescribed for the Class consists of four examinations and two essays.

Subjects.—(1) The Constitutional History of England to 1707, with sketch of the Constitutional History of Scotland; (2) The Constitutional History of Great Britain to 1800, and of the United Kingdom thereafter; (3) The Law and Custom of the Constitution.

Textbooks.—Maitland's *Lectures on the Constitutional History of England*, or Medley's *English Constitutional History*. For further study, Stubbs's *Select Charters and English Constitutional History*; M'Kechnie's *Magna Carta*; Hallam's *Constitutional History of England*; Bagehot's *English Constitution*; Dicey's *Law of the Constitution*; Sir W. Anson's *Law and Custom of the Constitution*; Prothero's *Select Statutes, etc.*, 1558-1625; Gardiner's *Constitutional Documents*, 1625-1660; Robertson's *Select Statutes, etc.*; Pollock and Maitland's *History of English Law*; Holdsworth's *History of English Law*; Innes's *Scotch Legal Antiquities*; Terry's *Scottish Parliament*.

The Mackay Lectures by Mr D. P. Heatley, Lecturer and Assistant in History, are free to members of the Class.

FORENSIC MEDICINE.

PROFESSOR HARVEY LITTLEJOHN.

For Synopsis of this Course, see under FACULTY OF MEDICINE.

POLITICAL ECONOMY.

PROFESSOR NICHOLSON.

For Synopsis of this Course, see under FACULTY OF ARTS.

INTERNATIONAL PRIVATE LAW.D. OSWALD DYKES, M.A., LL.B., *Lecturer*.

A Course of Forty Lectures on this subject will be given during the Summer Session on Tuesday, Wednesday, Thursday and Friday in each week, at 4 P.M. (this hour is subject to alteration should another be found more convenient to students). Under Ordinances 39 and 40, attendance on these Lectures qualifies as a half-course for Graduation in Law. The subject is also included among those in which Intrants to the Faculty of Advocates may be examined, and the Lectures are therefore adapted for students qualifying for the Scottish Bar.

The Lectures will deal with (a) The nature and scope of International Private Law; (b) Its History and Literature; (c) Its general principles and their application in regard to—i. *Forum*, or Competency, including Jurisdiction, the Recognition of Foreign Judgments, and Procedure generally; and ii. *Lex*, or Choice of Law, in questions of (1) the Personal Statute, including *status* and the family-relations; (2) the Law of Property, moveable and immoveable; (3) the Law of Obligations, including contract and delict; (4) Succession; and (5) Bankruptcy.

Examinations will be held on the subjects of the Lectures.

Students are strongly recommended to attend the Class of Scots Law before attending this Course.

Books of Reference.—Gillespie's *Bar*, 2nd ed., 1892; Guthrie's *Savigny*, 2nd ed., 1880; Westlake's *Private International Law*, 5th ed., 1912; Dicey's *Conflict of Laws*, 2nd ed., 1908; Duncan & Dykes's *Principles of Civil Jurisdiction*, 1911.

EVIDENCE AND PROCEDURE.

W. J. LEWIS, B.L., S.S.C., *Lecturer.*

This Course of Forty Lectures will be divided between the subjects of Evidence and Procedure. The Lectures on Evidence will deal with the principles of relevancy, competency, and sufficiency of evidence, and the practice of the Courts in relation to the conduct of proof. The Lectures on Procedure will include the subjects of the constitution of the Courts and extent of their jurisdiction, the forms of proceedings competent, the principles and details of procedure, and the rules of pleading.

Attendance on this Class qualifies as a half-course for Graduation in Law.

The Lectures are delivered on Tuesday, Wednesday, and Thursday of each week during the Winter Session, at 5 P.M.

Examinations will be held on the subjects of the Lectures and prescribed parts of the Textbooks.

Textbooks.—Balfour's *Handbook of Court of Session Practice* (edition 1911); Lewis' *Sheriff Court Practice* (edition 1913); *The Parliament House Book*; Kirkpatrick's *Digest of the Scottish Law of Evidence*. Students are also referred to Maclaren's *Court of Session Practice* (1916).

ADMINISTRATIVE LAW.

P. F. WOOD, K.C., M.A., B.C.L., LL.B., *Lecturer.*

A Course of Forty Lectures on this subject will be delivered on Tuesday, Wednesday, Thursday, and Friday of each week during the Summer Session, at 5 P.M.

Attendance on these Lectures qualifies for graduation in Law (to the extent explained in the Regulations).

The Lectures will deal with :—

Local Authorities.—Town Councils, County Councils, Parish Councils, School Boards, etc. ; their Constitution and Functions.

Central Authorities.—Scottish Office, Local Government Board for Scotland, Scotch Education Department.

Valuation and Rating.

Private Legislation, etc.

Examinations will be held on the Subjects of the Lectures.

Book of Reference.—Students should have *The Councillors' Manual* (Messrs Green & Sons) as a compendium of the Statutes concerning Administrative Law.

MERCANTILE LAW.

HENRY AITKEN, K.C., *Lecturer.*

A Course of Eighty Lectures on this subject will be delivered during the Winter Session on five days a week, at 5 P.M.

Attendance on these Lectures qualifies for graduation in Law and also in Arts.

The Lectures will deal with :—

- 1 The Origin and Growth of the Law Merchant in Europe.
2. The Law of Contracts in General.
3. The Law of the Special Contracts relating to Mercantile Affairs.
4. The Law of Joint Stock Companies.
5. The Law of Insolvency and Bankruptcy
6. The Law relating to Judicial Factors.
7. The Law of Arbitration.
8. The Law of Patents, etc.

Textbooks.—Bell's *Principles of the Law of Scotland*; Erskine's *Principles*; Smith's *Compendium of Mercantile Law*; Gloag on *Contracts*; Topham's *Company Law*; Esslemont's *Scots Mercantile Law*; Goudy on the *Law of Bankruptcy*.

Graduation in Law (Degrees of LL.B. and B.L.) and in Arts.
—Candidates will be examined on the subjects dealt with in the Lectures.

Graduation in Arts. Honours in Economic Science Subjects.
—Candidates will be examined on the subjects dealt with in the Lectures. Also on Mitchell on the *History of the Law Merchant*.

ENGLISH LAW.

HECTOR BURN MURDOCH, B.A., LL.B., *Lecturer.*

The complete Course on English Law extends over the Winter and Summer Sessions, and is covered by one fee of £5, 5s. The branches are treated in the following order:—

Criminal Law and outline of Criminal Procedure; Law of Evidence, Civil and Criminal; Law of Contract, Agency, Sale, Personal Property, including Contracts with Carriers and other Bailments, Bills, Patents, Companies, etc.; Law of Torts; Outline of Civil Procedure in King's Bench Division; Real Property; Wills; Conveyancing; Principles of Equity; Trusts; Administration; Marshalling; Conversion; Satisfaction.

Winter Session.—The subjects covered in the Winter Session extend down to the beginning of the Law of Real Property. Accordingly all the portions of the Course applicable to the requirements of candidates for the Civil Service Examinations are dealt with in the Winter Session.

Books of Reference.—Students are recommended to familiarise themselves with a standard elementary textbook upon each of the main divisions of English Law, among which are the following:—*Criminal*, Kenny; *Contract*, Anson, or Potts, or Pollock; *Personalty*, Goodeve or Williams; *Torts*, Pollock or Salmond; *Procedure*, Odgers or Baty; *Realty and Conveyancing*, Williams, or Edwards, or Topham; *Equity*, Indermaur or Strahan. The following are also recommended for reference:—Kenny's or Wilshire's *Select Criminal Cases*; Shirley's *Leading Cases on the Common Law*; Cockle's *Select Cases on Evidence*; Kenny's *Select Cases on Tort*.

**POST-GRADUATE COURSES IN THE FACULTY
OF LAW.**

Courses of Lectures suitable for Graduate Students.

1. Civil (*i.e.* Roman Law)—Professor Mackintosh. Three Terms (October to July).
2. Scots Law—Professor Rankine. Three Terms (October to July).
3. Conveyancing—Professor Mounsey. Two Terms (October to March).
4. Public Law—Professor Sir Ludovic J. Grant, Bart. (1) General Jurisprudence (Philosophy of Law). Autumn Term. (2) Public International Law. Spring Term.

5. Constitutional Law and Constitutional History—Professor Millar. Autumn and Spring Terms.
6. Forensic Medicine—Professor Littlejohn. Summer Term.
7. Political Economy. See under Faculty of Arts, p. 206.
8. International Private Law (Conflict of Laws)—Mr Dykes. Summer Term.
9. Evidence and Procedure—Mr Lewis. Autumn and Spring Terms.
10. Administrative Law—Mr Wood. Summer Term.
11. Industrial Law—Mr Aitken. Summer Term, p. 271.
12. Mercantile Law—Mr Aitken. Two Terms (October to March).
13. English Law—Mr Burn Murdoch. Three Terms (October to July).

Facilities for Training.

As Edinburgh is the seat of the Scottish Supreme Courts, students from the United States and the Dominions can usefully attend the sittings, and see both our civil and criminal jurisprudence in actual working.

The Faculty of Law is prepared to direct and supervise the research work of candidates for the Degree of Ph.D. It will also undertake to give special advanced instruction to Graduates in Law in certain Departments, *e.g.*, Public International Law and Roman Law, provided there is a sufficient demand.

REGULATIONS FOR GRADUATION IN LAW.

LL.B. and B.L.

Two Degrees in Law are conferred, on Examination, *viz.*, Bachelor of Law (B.L.) and Bachelor of Laws (LL.B.). Either Degree admits to the profession of Law Agent, provided the Candidate has included Scots Law and Conveyancing among his Graduation subjects, and has passed an Examination in the Practice of the Courts under the Law Agents Act.

The Degree of LL.B., if the Candidate has been examined in Civil Law, Philosophy of Law, International Law (Public or Private), Constitutional Law and History, Forensic Medicine, Scots Law (Civil and Criminal Law, including Evidence and Procedure), and Conveyancing, admits to the profession of Advocate.

Two Law Graduation Examinations are held annually—in October and in March.

I. BACHELOR OF LAWS (LL.B.).

I. No one is admitted to examination as a Candidate for the Degree of Bachelor of Laws (LL.B.) unless he be a Graduate in Arts of one of the Universities of the United Kingdom, or of any Foreign or Colonial University specially recognised for the purpose by the University Court.¹

II. The course of study in Law for the Degree of Bachelor of Laws includes the following subjects :—

- (1) Jurisprudence, General or Comparative, during a course of not less than forty lectures.
- (2) The Law of Nations, or Public International Law, during a course of not less than forty lectures.
- (3) Civil Law, during a course of not less than eighty lectures.
- (4) Law of Scotland, or Law of England, during a course of not less than eighty lectures.
- (5) Constitutional Law and Constitutional History, during a course of not less than eighty lectures.
- (6) Conveyancing, or Political Economy, or Mercantile Law, during a course of not less than eighty lectures.
- (7) Any two of the following subjects, namely :—International Private Law, Political Economy, Administrative Law, Evidence and Procedure, and Forensic Medicine, in each case during a course of not less than forty lectures; or such other subject included in the Department of History and Law or in the Faculty of Law as the Senatus, with the approval of the University Court, may from time to time determine.

III. (1) The course of study necessary for the Degree of Bachelor of Laws extends over three academical years, one of which at least must be spent in the University in which the Candidate intends to graduate, the other two may be spent in any other University or School of Law, specially recognised by the University Court.²

(2) No Candidate for a Degree is deemed to have attended a class as part of the course of study necessary for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

¹ In terms of this section, the B.A. Degrees of the following have been recognised :—New Zealand University; Cape of Good Hope University; Dalhousie University, Halifax, Nova Scotia; Queen's College, Kingston, Canada; McGill University, Montreal; the Universities of Calcutta, Madras, Allahabad, and Toronto. See also General Recognition List, U.S.A., in APPENDIX.

² Recognised in terms of this section: the Universities of Oxford, Cambridge, and Dublin; the Inner and Middle Temples; Lincoln's Inn; Gray's Inn; the Madras Law School; McGill University, Montreal; University College and King's College, University of London; the Maharaja's Law College, Trivandrum; Ripon College, University of Calcutta. See also General Recognition List, U.S.A., in APPENDIX.

IV. Candidates must undergo examination in the subjects prescribed in Section II. hereof; and they must pass at one examination in at least two of these subjects. Before presenting themselves in any subject, the Candidates must have attended the requisite course of instruction in such subject. Candidates who have passed an examination for another degree in any of the said prescribed subjects in the same University may be exempted from examination in such subject or subjects, provided that the examiners are satisfied that the previous examination in such subject or subjects has been passed on a sufficiently high standard.

V. Every Candidate for the Degree of Bachelor of Laws is examined, both orally and in writing, on each of the subjects in the course of study above prescribed in which he presents himself for examination.

VI. (1) Distinction may be awarded to Candidates who have displayed exceptional merit in their examinations.

(2) For the Degree of Bachelor of Laws a diploma is given, setting forth the subjects in which the Candidate has passed, and the distinction (if any) he has attained.

Candidates for Examination or Graduation must matriculate for the year.

II. BACHELOR OF LAW (B.L.).

I. Subject to the provision contained in Section II. hereof, each student before entering on his curriculum of study shall have passed—Latin being one of the subjects—

(a) The Preliminary Examination in the Faculty of Arts; and the conditions with respect thereto shall be applicable in all respects except as follows, viz., Latin shall be passed on the higher standard; or

(b) Such other Examination as the Joint Board of Examiners may from time to time accept as equivalent to the said Preliminary Examination in Arts, in which Latin has been passed on the higher standard, provided always that the Joint Board of Examiners shall have power to require, as a condition of such acceptance, that the said Examination shall be passed on a higher standard than the ordinary pass standard thereof.

II. If a student, before passing the Preliminary Examination, has attended a class qualifying for graduation, the Senatus may, on special cause shown, permit him to count such class as qualifying for graduation, on condition of his passing the full Preliminary Examination within such time thereafter as the Senatus may appoint; and in every such case the Senatus shall make a report to the University Court, setting forth the reasons for the relaxation.

III. A degree in Arts or Science or Economics (not being a degree *honoris causâ tantum*) in any of the Universities in the United Kingdom, or of any Colonial or Foreign University specially recognised for the purpose by the University Court after consultation with the Senatus, shall exempt from the Preliminary Examination.

IV. The curriculum of study in Law necessary for the degree of Bachelor of Law (B.L.), shall include the following subjects :—

- (1) Civil Law during a course of not less than eighty lectures.
- (2) Law of Scotland during a course of not less than eighty lectures.
- (3) Conveyancing, or Constitutional Law and (Constitutional) History, or Mercantile Law during a course of not less than eighty lectures.
- (4) Jurisprudence, or Forensic Medicine, during a course of not less than forty lectures.
- (5) Constitutional Law and (Constitutional) History, or Mercantile Law, if not already taken, or Political Economy, during a course of not less than eighty lectures, or any two of the following subjects, each during a course of not less than forty lectures: Jurisprudence, or Forensic Medicine, if not already taken, Public International Law, International Private Law, Evidence and Procedure, or such other subject included in the Department of History and Law or in the Faculty of Law as the Senatus, with the approval of the University Court, may from time to time determine.

V. (1) The curriculum of study in Law necessary for the degree of Bachelor of Law (B.L.), shall extend over three academical years, and in each academical year a candidate shall attend at least one course of eighty lectures, or two courses of forty lectures each.

(2) No candidate for the degree shall be deemed to have attended a class as part of the course of study necessary for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

(3) The candidate may prosecute his studies during the prescribed three years in one Scottish University, or in different Scottish Universities, or in a Scottish University and a University or School of Law specially recognised by the University Court; but two at least of these years must have been spent, and all the examinations in the subjects mentioned in the preceding section must have been passed at the University in which he intends to graduate; provided also, that where in any University or School of Law attended by the candidate a full course of eighty lectures in Civil Law is not available, and the candidate shall have there attended a shorter course in Civil Law, then he shall be required to take, in addition to the five subjects prescribed in Section IV. hereof, a course of not less than forty lectures in an additional subject in the Department of History and Law or in the Faculty of Law.

*VI. A candidate for the degree of Bachelor of Law (B.L.) must undergo examination, and pass in the whole subjects hereinbefore prescribed; and he may present himself for examination in all or any two of the subjects in which he has completed his course of study, and he must pass at one examination in at least two of these subjects, unless he shall previously have passed in all but one of the subjects hereinbefore prescribed, in which case he may present himself for examination and may pass in that one subject.

VII. Every candidate for the degree of Bachelor of Law (B.L.) shall be examined both orally and in writing on each of the subjects which he professes. The standard of examination in the subjects common to the degrees of Bachelor of Laws (LL.B.) and Bachelor of Law (B.L.) shall be the same.

VIII. (1) Distinction may be awarded to candidates who have displayed exceptional merit in their examinations.

(2) For the degree of Bachelor of Law (B.L.) a diploma shall be given, setting forth the subjects in which the candidate has passed, and the distinction (if any) he has attained.

IX. Every student who, at the time when this Ordinance shall come into operation, shall have completed a part of his course with a view to graduation as a Bachelor of Law in any Scottish University under Regulations hitherto in force in that University, and shall thereafter complete his course of study in conformity with such Regulations, may become a candidate for the degree of Bachelor of Law, without complying with the provisions of this Ordinance; or he may complete his course of study, and become a candidate for said degree in accordance with the provisions of this Ordinance: Provided always that in the latter case he shall not be deemed to be disqualified if he shall have passed the Preliminary Examination prescribed in Section I. hereof after entering on his curriculum of study.

Subjects of Examination for 1919-20.

FOR DEGREES OF LL.B. AND B.L.

In GENERAL JURISPRUDENCE the subjects will be the Professor's Lectures, and Holland's *Elements of Jurisprudence* and Salmond's *Jurisprudence*.

In PUBLIC INTERNATIONAL LAW the examination will be in the Professor's Lectures, and Hall's *International Law*.

In CIVIL LAW the examination will be on the History of the Law, and on its Principles as explained in the Institutes of Gaius and Justinian. The paper will contain passages from these texts for translation into English. Candidates for LL.B. will also be examined on Books xviii., tit. i. (*De contrahenda emptione*) and xix., tit. i. (*De actionibus empti venditi*) of the Digest.

In CONSTITUTIONAL LAW AND CONSTITUTIONAL HISTORY—The Constitutional Law and Constitutional History of England, Great Britain, and the United Kingdom. For books recommended, see Synopsis of Lectures.

In the LAW OF SCOTLAND the subject will be the Municipal Law, Civil and Criminal. The works of Mr Erskine, Mr G. J. Bell, and Lord Kingsburgh, in the latest editions, are recommended to Candidates.

In CONVEYANCING the subject of examination will be—The subjects of the Course, excluding Entail, Lease, Real Diligence, and Sequestration. Candidates are expected to show evidence of independent study and research outside the lectures.

In FORENSIC MEDICINE — The subjects of the Course, with the exception of Toxicology.

In POLITICAL ECONOMY, Candidates are recommended to read, in addition to the books set for the M.A. examination, the Professor's *Principles of Political Economy*, books i.-iii.

In INTERNATIONAL PRIVATE LAW Candidates will be examined on the subjects dealt with in the Lectures. See Synopsis of Lectures.

EVIDENCE AND PROCEDURE.—Candidates will be examined on the subjects dealt with in the Lectures and Text-books. See Synopsis of Lectures.

ADMINISTRATIVE LAW. — Candidates will be examined on the subjects dealt with in the Lectures. See Synopsis of Lectures.

MERCANTILE LAW.—Candidates will be examined on the subjects dealt with in the Lectures. See Synopsis of Lectures.

ENGLISH LAW.—Candidates will be examined on the subjects dealt with in the Lectures, including the Law of Real and Personal Property, Equity, and Conveyancing, the Laws of Contract, Torts, Crimes, Evidence, and Procedure. See Synopsis of Lectures.

Examination Fees.

PRELIMINARY EXAMINATION FOR B.L.

For each examination on Standard of M.A. Preliminary Examination, £0 10 6

LAW EXAMINATIONS FOR LL.B. AND B.L.

The fee payable for LL.B. is £6 6 0

or

If the Examination be taken at two or more periods—

For the First, £3 3 0

For the Second, 3 3 0

The fee payable for B.L. is £5 5 0

or

If the Examination be taken at two or more periods—

For the First, £3 3 0

For the Second, 2 2 0

Candidates for LL.B. or B.L. who fail in the Examinations pay a fee of 10s. 6d. for re-appearance in each subject.

Candidates for Examination or for Graduation must be Matriculated Students of the Academic year.

Fee for registration as a member of the General Council (if not already registered), £1.

Time-Table of Examinations and Dates of Entry, 1919-1920.

Candidates are required to enter for each periodical Examination at which they desire to appear, and to state the subject or subjects in which they desire to be examined. When the fee has been previously paid, a pass to the examination must be obtained.

When names are not entered, and fees paid, on or before the stated dates, an additional or late-entry fee of ten shillings must be paid before the Candidates can be admitted to examination. This fee will not be received after Twelve o'clock of the last day but one preceding the Examination for which the Candidate desires to appear, without the express permission of the Dean of the Faculty, and the subsequent sanction of the Senatus.

Preliminary Examination.

(See pages 105-f.)

Graduation Examinations.

1919.

Sept.	25, Th.	Names to be given in, certificates shown, and fees paid.
Oct.	2, Th.	Mercantile Law, 9-11, 11.30-1.30; Political Economy, 3-5.
"	3, Fri.	Civil Law, 9-11, 11.30-1.30; Political Economy, 3-5.
"	4, Sat.	General Jurisprudence, 9-11; Public International Law, 11.30-1.30; Constitutional Law and Constitutional History, 2-4.
"	6, Mon.	Scots Law, 9-11, 11.30-1.30; English Law, 9-11, 11.30-1.30; Constitutional Law and Constitutional History, 2-4.
"	7, Tu.	Conveyancing, 9-11, 11.30-1.30; Forensic Medicine, 2-4.
"	8, Wed.	International Private Law, 9-11; Evidence and Procedure, 12-2; Administrative Law, 3-5.
"	13, Mon.	Oral Examinations.

1920.

- March 1, Mon. Names to be given in, certificates shown, and fees paid.
- " 15, Mon. Scots Law, 9-11, 11.30-1.30; English Law, 9-11, 11.30-1.30; Constitutional Law and History, 2-4; Mercantile Law, 5-7.
- " 16, Tu. General Jurisprudence, 9-11; Public International Law, 11.30-1.30; Constitutional Law and History, 2-4; Mercantile Law, 5-7.
- " 17, Wed. Conveyancing, 9-11, 11.30-1.30; Forensic Medicine, 2-4; Political Economy, 5-7.
- " 18, Th. Civil Law, 9-11, 11.30-1.30; Political Economy, 5-7.
- " 19, Fri. International Private Law, 9-11; Evidence and Procedure, 12-2; Administrative Law, 3-5.
- " 22, Mon. Oral Examinations.

GRADUATION CEREMONIALS.

- | | | |
|------|-------------------|---|
| Oct. | 1919.
25, Sat. | } Names to be entered at least three days previously. |
| Mar. | 1920.
26, Fri. | |
| July | 8, Th. | |

SCHOLARSHIPS, BURSARIES, PRIZES, ETC., IN THE FACULTY OF LAW.

I. Scholarships.

Where the competition is open to Graduates, their standing will be computed from the date of the Graduation Ceremonial immediately following the completion of their Law Examinations.

In the case of Scholarships, etc., the award of which has been deferred, preference will be given to candidates who were qualified at the time when, in ordinary course, the award would have been made. A period of War Service will not be counted in reckoning qualification.

VANS DUNLOP SCHOLARSHIPS.

Two Scholarships, each of £100 per annum, and tenable for three years :—

1. THE LAW OF NATURE AND NATIONS, CIVIL LAW, AND CONSTITUTIONAL LAW AND HISTORY.

The Regulations for competition are as follows :—

(a) The Competition is open to all Candidates who, within the three years immediately preceding the date of competition, shall have graduated in Law in this University, or shall have passed the Graduation Examination in the three subjects of examination for the Scholarship : provided, in the latter case, they have obtained an average of not less than 75 per cent. of marks in these three subjects.

(b) Candidates are required to matriculate for the year in which the competition takes place, and must produce evidence that they are eligible.

(c) The Competition is by written Essays on branches of law to be announced at least one year before the date of competition. The usual date of the Competition is the beginning of November.

(d) The Examiners are the Professors of the prescribed subjects, assisted by the additional Law Examiners.

Each holder of the Scholarship will be required to deliver, to the satisfaction of the Faculty of Law, two courses of three lectures each on one of the subjects of examination for the Scholarship, viz., one course in the second, and the other in the third year of his tenure.

Open October 1920.

2. SCOTS LAW AND CONVEYANCING.

(a) The Competition is open to all Candidates who, within the three years immediately preceding the date of competition, have graduated in Law in this University, or have passed the Graduation Examination in Scots Law, Conveyancing, and Forensic Medicine, provided they have obtained at the Graduation Examination an average of not less than 75 per cent. of marks in these three subjects.

(b) Candidates are required to matriculate for the year in which the competition takes place, and must produce evidence that they are eligible.

(c) The Competition is by written Essays on (1) The Civil Law of Scotland; (2) the Criminal Law of Scotland; and (3) Conveyancing: the particular branches of which are as follows:—1. Scots Law: (i.) The Law of Succession; (ii.) The History of Criminal Procedure. 2. Conveyancing: the subjects of the Course, excluding Compulsory Sale, Leases, Real Diligence, and Sequestration. The usual date of the Competition is the beginning of November.

(d) The Examiners are the Professors of the prescribed subjects, assisted by the additional Law Examiners.

Each holder of the Scholarship will be required to deliver, to the satisfaction of the Faculty of Law, two courses of three lectures each on one of the subjects of examination for the Scholarship, viz., one course in the second, and the other in the third year of his tenure.

Open October 1920.

1914, THOMAS M. COOPER, M.A., LL.B.

LORIMER TRAVELLING SCHOLARSHIP.

The Lorimer Travelling Scholarship, of the annual value of about £68, tenable for two years, for the encouragement of the study of the "Law of Nature and Nations" in foreign Law Schools by Students and Graduates in the Faculty of Law, was founded by the Lorimer Memorial Committee and the Association for the better Endowment of the University. The Scholarship is open to Candidates who, during the two years immediately preceding that in which a scholar falls to be appointed, have completed the examinations for a Degree in Law in the University in the following subjects, namely—(1) The "Law of Nature and Nations" (including therein the Philosophy of Law); (2) The Civil Law; and (3) Either (a) Constitutional Law and History, or (b) Political Economy. The foreign Law School or Schools which the Scholar proposes to attend must be previously approved by the Faculty of Law. The Candidate who, in the opinion of the Faculty of Law, passes with most distinction in the examinations for Graduation in Law, in the subjects above set forth, during the two years immediately preceding the election, and who is willing to fulfil the conditions imposed by the Deed of Foundation, will be eligible, consideration being always given to his proficiency in the first of the above-named subjects, and to his knowledge of the modern language or languages spoken in the Law School or Schools where he proposes to study. For Deed of Foundation, see CALENDAR for 1892-93, p. 538.

The Scholarship may be awarded in 1920.

1914, W. G. M. DOBIE, M.A.

GRAY SCHOLARSHIP FOR RESEARCH.

(See under Faculty of Arts.)

THOW SCHOLARSHIPS.

These Scholarships, three in number, each of the value of about £25, and tenable for one year, were founded by the Trustees of the late Miss Christiana Thow, of Craigmore, West Ferry, near Dundee, according to

the desire of Miss Christiana Thow and her sister, Miss Margaret Thow, and out of respect to the memory of their brothers.

The following are the Rules and Regulations applicable to the said Scholarships :—(1) The Scholarships shall be distributed annually, one to the most distinguished student for the Winter Session in the Class of Scots Law at the University of Edinburgh ; another to the most distinguished for the Winter Session in the Class of Conveyancing at the said University ; and the third to the most distinguished student for the Winter Session in any two of the following Classes at the said University, viz. :—Public Law, Civil Law, and Constitutional Law and History. (2) Each of the Scholarships shall be tenable only for one year by the student in the subject for which it has been bestowed upon him, but the same student may competently obtain one of the Scholarships set apart for the other subjects in a succeeding session, provided he has the necessary qualification. (3) No Student can hold two of these Scholarships for the same year, although he may have satisfied the conditions in other respects. In the event of any Student being first as regards two of the Scholarships, the Faculty of Law shall determine which Scholarship shall be awarded to him, and which shall be taken by the next most distinguished Student. (4) There shall be no restriction as to holding one of these Scholarships along with another Scholarship or Bursary from another source.

1918, (*Scots Law*), WILLIAM B. ABBOTT.

(*Conveyancing*), THOMAS ANDERSON.

(*Public Law and Civil Law*), MARY AYTON BROWN.

1919, (*Scots Law*), W. G. M. DOBIE, M.A.

(*Conveyancing*), R. C. SMITH.

(*Public Law and Civil Law*), MARGARET G. MACGREGOR.

WARDLAW BEQUEST for behoof of indigent and deserving Students. (See under **Faculty of Arts.**)

II. Bursaries.

GRIERSON BURSARIES.

Founded in 1873 by the Grierson Trustees : annual value about £26, 13s. 4d.

Deserving Students from the parishes of Crawford or Leadhills, applying to the Clerk of Senatus on or before the 1st day of September, are entitled to preference, if they satisfy certain conditions ; and if the applicant is commencing his first Winter Session of the Law Curriculum he will be entitled to hold the Bursary for three years, provided "he prosecutes his studies with proper diligence."

Failing preferential candidates, the Bursaries will be tenable for one year only, and will be awarded to candidates who have attended one year in the Faculty of Arts in some University. 1. In the case of those commencing their first Winter Session in Law, the award will be to the candidate who has passed highest in the B.L. Preliminary Examination in September. 2. In the case of candidates commencing

their second Winter Session—to the most distinguished law-student of that standing, who, if not a Graduate in Arts, has passed satisfactorily in the B.L. Preliminary Examination, either in September or earlier. 3. In the case of candidates commencing the third Winter Session of the Law Curriculum—to the most distinguished law-student of that standing who, if not a graduate in Arts, has passed satisfactorily in the B.L. Preliminary Examination, in September or earlier. The Bursary may be awarded in October 1919.

CAIRNS BURSARY.

Founded in 1873 by Geo. Cairns, Solicitor: about £18, 10s. annually.

The Bursary is tenable for one year only, and is not subject to any preferences. The competition is subject to the same conditions as those for the second year Grierson Bursary. It is open to Students who have completed one year in the Faculty of Law. The Bursary may be awarded in 1919.

THOMSON BURSARIES.

Founded in 1878 by Dr Andrew Thomson. Four Bursaries: each £25 a year, for 4 years. Patrons, the Trustees of Dr Thomson.

Candidates must be male students commencing their First Winter Session, and must intimate their intention to compete to Messrs Traquair, Dickson, & Maclaren, W.S., 11 Hill Street, Edinburgh, and also to the Clerk of the Senatus, on or before 1st September. Candidates of the name of Thomson or Traquair, or natives of the town or county of Dumfries, or of the city of Edinburgh, are preferred. The Examination is the B.L. Preliminary held in September. The Bursary may be awarded in 1919.

HARRY DALGETY BURSARIES.

Founded in 1912 by the Misses Dalgety, and Mrs Isabella Jamieson Dalgety or Wilson, all of Edinburgh. Four Bursaries: each £50 a year, for 2 years. Patrons, the Dalgety Trustees.

Two Bursaries will be offered for competition annually in July to Matriculated Students of any Scotch University who have completed attendance on the Classes of Scots Law and Conveyancing in a Scotch University. The Bursaries will be awarded to the Candidates who show the greatest proficiency in and knowledge of Scots Law and Conveyancing, and will be tenable in the Law Faculty of the University of Edinburgh for two academic years, as from 1st October following, subject to the following conditions:—(1) Candidates must satisfy the Trustees that they require and deserve pecuniary assistance in the prosecution of their studies in Law. (2) Qualified Candidates will be examined in Scots Law (Civil and Criminal) and Conveyancing, in July, in Edinburgh, at a time and place to be afterwards announced. (3) Each Bursary is tenable for two consecutive years, during which the Bursar is required to attend Four Full Courses of Lectures (or an equivalent number of Half-Courses), exclusive of Scots Law and Conveyancing, in the Law Faculty of the University of Edinburgh. If any Bursar has previously attended more than one such Full Course (exclusive of Scots Law and Conveyancing), he shall hold his Bursary for one year only, on condition that he attend two Full Courses or their

equivalent. (4) These Bursaries are not tenable along with any other Fellowship, Scholarship, or Bursary connected with the Faculty of Law in the University of Edinburgh. See Deed of Foundation, p. 795 of CALENDAR for 1914-15.

Intending Candidates are requested to lodge (not later than 29th May) written application, with evidence of their eligibility, with the Agents to the Trustees—Messrs Dove, Lockhart, & Smart, S.S.C., 29 York Place, Edinburgh, who will supply forms of application and all further particulars.

The Bursaries may be open in 1920.

The following ARTS BURSARIES are tenable in the Faculty of Law :—

Allan.	Grant.	Maule.
Baxter of Balgavies.	Jamieson.	Muirhead-Aitken.
Campbell.	Lanarkshire.	Peeblesshire.
Chrystie.	Macdonald.	Sibbald.
Fraser (Thomas).	MacLaurin.	Strang Steel.
Glenbuck.		

III. Prizes.

FORENSIC PRIZE.

Of the value of £13, founded in 1858 by the Forensic Society, with the view of encouraging the study of Roman Law, is awarded annually, for the best Essay upon a subject connected with the study of the Civil Law. The subject of the Essay is announced by the Professor early in the session. It can be competed for only by Students of the Civil Law Class during the preceding year.

1919, MARY AYTON BROWN.

MUIRHEAD PRIZE.

Of about £25 annually, is awarded to the Student who gains the first place in the Class of Civil Law, as determined by the results of the periodical examinations during both the Winter and Summer Sessions.

1919, JAMES MILL.

HARRY DALGETY PRIZES.

Four Prizes, founded in 1912 by the Misses Dalgety and Mrs Isabella Jamieson Dalgety or Wilson, of the value of £10, 10s. each, will annually be awarded, after competitive examination, at the close of the Session, for excellence in the study of legal subjects to be selected by the Trustees, of which due notice will be given. Candidates for Prizes in any of the selected subjects must have attended the Course of Lectures on that subject in the University of Edinburgh for one Session only, and that within a period of three years prior to the date of the competition. Candidates may compete for all or any of the Prizes. A Student who holds or has held one of the Harry Dalgety Bursaries is not eligible for these Prizes. See Deed of Foundation, p. 795 of CALENDAR for 1914-15.

The Prizes may be offered for competition in 1920.

GRAY PRIZES.(See under **Faculty of Arts.**)**GLADSTONE MEMORIAL PRIZE.**(See under **Faculty of Arts.**)**LORD RECTOR'S PRIZE.**(See under **Faculty of Arts.**)**IV. Funds for Special Study or Research.**

THE WILLIAM DICKSON TRAVELLING FUND.

THE EARL OF MORAY BEQUEST FOR THE PROMOTION OF ORIGINAL RESEARCH.

CARNEGIE TRUST. .

(For particulars of above, see under **Faculty of Arts.**)

The attention of all Bursars in the Faculty of Law is particularly called to the following Regulation:—

Bursars connected with the Faculty of Law must annually attend and perform the work of at least one Class in the Faculty.

Each Scholar, Bursar, or Prizeman, when he applies to the Factor for a payment, must produce a Certificate, signed by the Dean, or the Professor to whose department the Foundation is attached, attesting his regular attendance on the proper Classes, or otherwise that he has fulfilled the conditions attached to the Foundation.

Certificates, in terms of this regulation, will be given to Bursars by the *Dean of the Faculty of Law* after the 13th November; also at the end of the Session in March. In applying to the Dean for the Certificate in November, Bursars must present to him their Class Cards for the Session, as evidence that they have enrolled in their Classes; and at the end of the Session they must present to him certificates from the Professors to the effect that they have attended with regularity and have performed the work of the Classes. Payments are made by the Factor for the University, Sir Henry Cook, W.S., 61 Castle Street, Edinburgh, on and after 14th November for the Martinmas payments, and on and after 19th May for the Whitsunday payments,—between 10 and 3 o'clock.

N.B.—Bursars and Scholars who desire to resign should at once announce this to the Factor. They must apply to the Factor for the instalments due to them within three months after they have become payable, otherwise they will be regarded as having resigned.

FACULTY OF MEDICINE

DEAN—PROF. LORRAIN SMITH, M.A., M.D., F.R.S.

PROGRAMME OF CLASSES

WINTER SESSION, 1919-1920.

The Classes in the Faculty will be opened as follows, and will meet daily (Saturdays excepted) unless otherwise stated:—

Three months' course indicated by *

CLASSES.	Days of Opening and Hours of Lectures.	Professors and Lecturers.	Class Fees. See also p. 546.	See also page
Chemistry	14 Oct., 12 noon	Prof. Barger and Lecturers	£4 4	553
Chemistry, Practical ¹	14 Oct., 9 a.m.	Prof. Barger and Lecturers	3 3	553
Physics (<i>Monday, Tuesday, and Thursday</i>)	14 Oct., 1 p.m.	Prof. Barkla and Dr Curie	3 3	553
Zoology (Elementary)	15 Oct., 1.30 p.m.	Prof. Ewart and Prof. Ash.	4 4	554
Practical Zoology (Elementary)	15 Oct., 1.30 p.m.	worth	2 2	554
*Botany, Tutorial (<i>twice weekly</i>)	14 Oct., 2.30 p.m.	James Templeton, B.Sc.	2 2 ³	555
Anatomy	14 Oct., 11 a.m.	Prof. Robinson, Lecturers, and Assistants	4 4	556
Anatomy, Practical	14 Oct., <i>daily</i>	Prof. Robinson, Lecturers, and Assistants	4 4	556
Anatomy, Revision Class	September		2 2 ⁵	556
Regional Anatomy (Anatomical Demonstrations)	15 Oct., 9 a.m.		4 4	558
Physiology	14 Oct., 10 a.m.	Prof. Sir Edward Sharpey	2 2 ⁷	559
Demonstrations to Sections on Wednesdays, 10-11, 12-1.	14 Oct., 11 a.m.	Schafer, Lecturers, and Assistants	1 1 ⁷	559
Physiology, Practical—*Experimental ⁶	6 Jan., 11 a.m.		3 3 ⁷	560
*Chemical ⁶			4 4	561
Physiology (Adv. Pract. Experi., and Chem.)			2 2	562
Pathology (Including Elementary Bacteriology) ⁸	14 Oct., 3 p.m.	Prof. Lorrain Smith and Ritchie, and Lecturers	4 4	561
Pathology (Morbid Anatomy) ⁸	14 Oct., 10 a.m.	Prof. Lorrain Smith & Assistants.	2 2	562

FACULTY OF MEDICINE

PROGRAMME OF CLASSES

Materia Medica	14 Oct., 2 p.m.	Prof. Cushny and Assistants	4 4	564
*Materia Medica, Practical, including Pharmacy	14 Oct., 4 p.m.		3 3	564
*Public Health and Sanitary Science—Advanced	6 Jan., 3 p.m.	Prof. Hunter Stewart	4 4	384
Public Health Laboratory	14 Oct., <i>daily</i>		see p. 85	85
Midwifery	14 Oct., 10 a.m.	Prof. Sir J. Halliday Croom	4 4	571
Midwifery (for Women Students)	14 Oct., 2 p.m.	J. W. Ballantyne, M.D.	4 4	571
Gynecology ⁹		A. H. Freeland Barbour, M.D.	4 4	572
Surgery	14 Oct., 9 a.m.	Prof. Alexis Thomson	4 4	567
Surgical Pathology (<i>twice weekly</i>) ¹⁰	13 Jan., 2 p.m.	Jas. M. Graham, M.B.	1 1	568
Medicine	14 Oct., 9 a.m.	Prof. Gulland	4 4	569
Therapeutics	Oct.	Prof. Meakins	4 4	
		(Prof. Sir Harold J. Siles and A. Thomson, J. W. B. Hodsdon, M.D., David Wallace, C.M.G., M.B., Alex. Miles, M.D., J. W. Dowden, M.B., A. A. Scot Skirving, M.B., and Assist. Surgeons	see p. 549	568
Clinical Surgery, ^{8 11} Royal Infirmary (<i>daily</i>)	16 Oct., 12 noon	(Prof. Boyd Gulland, Meakins, and Sir R. W. Philip, Drs Fleming, Rainy, Chalmers Watson, E. Bramwell, and Assist. Physicians.	see p. 549	570
Clinical Medicine, ^{8 11} Royal Infirmary (<i>daily</i>)	14 Oct., 12 noon	Prof. Sir R. W. Philip	2 2	571
Tuberculosis	14 Oct., 9 a.m.	Prof. Robertson	2 2 ¹²	573
Mental Diseases, with Clinical Instruction at	14 Jan., 3 p.m.	(A. H. F. Barbour, M.D., and N. T. Brewis, M.B.)	2 2	572
Royal Mental Hospital (<i>twice weekly</i>)				
Clinical Gynecology	14 Oct., 10 a.m.			

¹ Class meets in sections.

² Besides charge of 10s. for Laboratory Expenses.

³ Three months' course, £2 12s. 6d.

⁴ One division meets on Wednesdays at 2, instead of 11

⁵ When taken along with Practical Anatomy, £1, 1s. Fee for three months' course, £1, 1s.

⁶ Besides small charges for materials (Experimental, 12s. 6d.; Chemical, 6s.).

⁷ Only open to Students holding the Honorary Ticket (see page 561).

⁸ Twenty Lectures—part of the course of Midwifery, and free to Members of that Class.

⁹ Only open to Students who have been members of the University Class of Surgery.

¹⁰ May be taken in courses of three months.

¹¹ Five Shillings Entrance-fee for Non-matriculated Students (see page 16).

WINTER SESSION—continued.

CLASSES.	Days of Opening and Hours of Lectures.	Professors and Lecturers.	Class Fees. See also p. 549.	See also page
*Diseases of Children—Royal Hospital for Sick Children ¹	15 Oct., 11 a.m. 7 Jan., 11 a.m.	{ J. Stewart Fowler, M.D., and Staff of the Hospital }	£2 2 ²	575
*Diseases of the Eye ¹ (<i>thrice weekly</i>)	15 Oct., 11 a.m.	{ W. G. Sym, M.D. }	2 2 ²	575
*Diseases of the Eye ¹ (<i>thrice weekly</i>)	14 Jan., 11 a.m.	{ J. V. Paterson, M.B. }	2 2 ²	575
*Diseases of the Larynx, Ear, and Nose ¹ (<i>thrice weekly</i>)	6 Jan., 11 a.m.	{ A. Logan Turner, M.D. }	2 2	575
*Diseases of the Larynx, Ear, and Nose ¹ (<i>thrice weekly</i>)	16 Oct., 11 a.m.	{ J. Malcolm Farquharson, M.B. }	2 2	575
*Diseases of the Skin ¹ (<i>thrice weekly</i>)	14 Oct., 11 a.m.	{ Norman Walker, M.D. }	2 2	576
*Diseases of the Skin ¹ (<i>thrice weekly</i>)	14 Oct., 11 a.m.	{ Frederick Gardiner, M.D. }	2 2	576
Advanced Bacteriology ³	16 Oct., 11 a.m.	{ Prof. Ritchie and Assistants }	3 3 ²	563
*Diseases of Tropical Climates	14 Oct.	{ Lt.-Col. D. G. Marshall, I.M.S. }	2 2 ²	577
*Medical Entomology and Protozoology	16 Oct., 2 p.m.	{ Prof. Ashworth }	2 2 ⁴	579
*Tropical Hygiene (<i>Monday and Tuesday</i>)	14 Oct., 3 p.m.	{ Prof. Hunter Stewart and J. B. Young, M.B., D.Sc. (P.H.) }	3 3	578
*Cytology and General Embryology	15 Oct., 12 noon.	{ John Beard, D.Sc. }	2 2 ²	349
*Embryology of Organs	Jan.	{ Prof. Sir Harold J. Stiles }	2 2 ²	349
*Applied Anatomy (Medical and Surgical)	15 Oct., 5 p.m.	{ Alex. James, M.D., and Claude B. Ker, M.D. }	1 1 ²	557
*Infectious Fevers	14 Jan., 4 p.m.	{ J. D. Comrie, M.A., B.Sc., M.D. (Demonstrator—)	1 1 ⁵	581
*History of Medicine		{ J. Stuart Ross, M.B. }	... 6	576
*Practical Anaesthetics		{ J. J. Graham Brown, M.D. }	... 7	
*Neurology		{ Harry Ratny, M.A., M.D. }	... 8	577
*Physical Methods in the Treatment of Disease	14 Jan., 5 p.m.		... 9	577

PROGRAMME OF CLASSES

SUMMER SESSION, 1920.

Botany	20 Apr., 8 a.m.	{ Prof. Bayley Balfour }	£4 4 ¹⁰	555
Practical Botany ¹¹	20 Apr., 9 a.m.	{ Prof. Ewart and Prof. Ashworth }	2 2	555
Zoology	20 Apr., 12 noon	{ Prof. Barger and Lecturers }	4 4	554
Zoology (Practical) ¹¹	20 Apr., 10-12 noon	{ Prof. Barkla and Dr Carse }	2 2 ¹²	554
Chemistry (Practical)	20 Apr.	{ Prof. Robinson, Lecturers, and Assistants }	3 3	553
Physics	20 Apr., 1 p.m.	{ Prof. Sir Edward Sharpey }	3 3	553
Practical Anatomy (<i>daily</i>)	20 Apr.	{ Schafer, and Assistants }	2 12 6	556
Regional Anatomy (Anat. Demonstrations)	21 Apr., 10 a.m.	{ Prof. Lorrain Smith and Assistants }	1 1	556
Practical Physiology (Histology) ¹³	20 Apr., 8-10 a.m. and 11-1 p.m.	{ Prof. Harvey Littlejohn }	2 2 ¹⁴	559
Pathology (Practical)	20 Apr., 8-10 a.m.	{ Prof. Hunter Stewart }	3 3	562
Forensic Medicine	20 Apr., 2 p.m.	{ Prof. Alexis Thomson and Assistants }	4 4	565
Public Health	20 Apr., 10 a.m.	{ Prof. Sir J. Halliday Croom }	2 2	566
Public Health, Laboratory	20 Apr.	{ and A. H. F. Barbour, M.D. }	see p. 85	85
Operative Surgery and Surgical Appliances	20 Apr., 8-9-45 a.m.		3 3	597
Obstetrical and Gynecological Operations (<i>on days to be arranged</i>)	20 Apr., 10 a.m.		3 3	572

¹ Only open to Students holding the Hospital Ticket (see p. 551).

² Five Shillings Entrance-fee for Non-matriculated Students (see p. 16).

³ The Term in which this Course will meet is subject to alteration.

⁴ Fee for Officers of the Health Office, £2 2s., including the Fee for Matriculation.

⁵ Free to Matriculated Students. For others, a Class Fee of 15s., and a University Entrance-fee of 5s. (see p. 16).

⁶ Open to Students who have passed the Third Professional Examination, and have attended Medicine and Clinical Medicine;

and also to Registered Medical Practitioners. Fee for those who have attended the University Class of Medicine, £1, 1s.; Fee for

others, £2 2s., with Entrance Fee of 5s. (see p. 16).

⁷ All Graduates in Medicine of the University, £1, 1s., with 5s. Entrance Fee (see p. 16); Registered Medical Practitioners,

£2 2s., with 5s. Entrance Fee (see p. 16); Students who have passed the Third Professional, and attended Medicine and

Clinical Medicine, Free.

¹¹ On days to be arranged.

¹² Besides charge of 10s. for Laboratory Expenses.

¹³ In two divisions. A third division, if necessary, 2-4 p.m.

¹⁴ Besides a fee of 11s. for materials.

SUMMER SESSION—continued.

CLASSES.	Days of Opening and Hours of Lectures.	Professors and Lecturers.	Class Fees. See also p. 549.	See also page
Clinical Surgery, ¹ Royal Infirmary (<i>daily</i>)	22 Apr., 12 noon	{ Profs. Sir Harold J. Stiles and A. Thomson, J. W. B. Hodsdon, M.D., David Wallace, C.M.G., M.B., Alex. Miles, M.D., J. W. Dowden, M.B., A. A. Scot Skirving, M.B., and Assist. Surgeons { Profs. Boyd, Gulland, Meakins, and Sir R. W. Philip, Drs Fleming, Rainy, Chalmers Watson, E. Bramwell, and Assist. Physicians Prof. Sir R. W. Philip { A. H. F. Barbour, M.D., and N. T. Brewis, M.B. W. G. Sym, M.D. J. V. Paterson, M.B. { J. Stewart Fowler, M.D., and Staff of the Hospital A. Logan Turner, M.D. J. Malcolm Farquharson, M.B. Norman Walker, M.D. Frederick Gardiner, M.D. Lt.-Col. D. G. Marshall, I.M.S. Prof. Ritchie and Assistants. { Prof. Hunter Stewart and J. B. Young, M.B., D.Sc. (P.H.)	see p. 549	568
Clinical Medicine, ¹ Royal Infirmary (<i>daily</i>)	20 Apr., 12 noon		see p. 549	570
Tuberculosis	20 Apr., 9 a.m.		£2 2	571
Clinical Gynecology	20 Apr., 10 a.m.		2 2	572
Diseases of the Eye, ¹ (<i>thrice weekly</i>)	21 Apr., 11 a.m.		2 2 ²	575
Do. (<i>thrice weekly</i>)	20 Apr., 11 a.m.		2 2 ²	575
Diseases of Children—Royal Hospital for Sick Children ¹	20 Apr., 11 a.m.		2 2 ²	575
Diseases of the Larynx, Ear, and Nose ¹ (<i>thrice weekly</i>)	22 Apr., 11 a.m.		2 2	575
Do. (<i>thrice weekly</i>)	20 Apr., 11 a.m.		2 2	575
Diseases of the Skin ¹ (<i>thrice weekly</i>)	21 Apr., 11 a.m.		2 2	575
Do. ¹ (<i>thrice weekly</i>)	22 Apr., 11 a.m.		2 2	576
Diseases of Tropical Climates	20 Apr., 2 p.m.		2 2	576
Senior Bacteriology (<i>thrice weekly</i>) *	20 Apr., 3 p.m.		2 2	577
Tropical Hygiene (<i>Monday and Tuesday</i>)	20 Apr., 3 p.m.		3 3	583
			3 3	578

Experimental Pharmacology⁴

Invertebrate Zoology, with Laboratory Work

Practical Anaesthetics.

Infectious Fevers

20 Apr., 3 p.m.
20 Apr., 2-4 p.m.
5 May, 7 p.m.
20 Apr., 4 p.m.

W. C. Sillar, M.D., B.Sc.
Prof. Ashworth
{ Demonstrator—
J. Stuart Ross, M.B.
{ Alex. James, M.D.
{ Claude B. Ker, M.D.

3 3²
3 3⁵
... 6
1 1⁷

504

555

...

581

¹ Only open to Students holding the Hospital Ticket (see p. 551).² Five Shillings Entrance-fee for Non-matriculated Students (see p. 16).³ The Term during which this Course meets is subject to alteration.⁴ Two hours a day, three times a week.⁵ This Class is free to all University Students holding a Hospital Ticket.⁶ Besides charge of 10s. for Laboratory Expenses.
⁷ Fee payable at the Health Office, 331 High Street.

FEES FOR SECOND AND SUBSEQUENT ATTENDANCES, ETC.

Second attendances on £4, 4s. Courses, £3, 3s.; on £3, 3s. Courses, £2, 2s.; subsequent attendances free. Subsequent attendances on £2, 2s. Courses, no reduction; third or subsequent attendances, £1, 1s. Second or subsequent attendances on Class of Diseases of Children, £1, 1s. Perpetual ticket for initial payment for any Lecture Course in the Faculty (except Clinical Surgery and Clinical Medicine), £6, 6s. Practical Classes and Laboratories, no reduction. Clinical Surgery: Fee, £2, 2s. per term. Clinical Medicine: 1st term, £3, 13s. 6d.; subsequent terms, £2, 2s. No perpetual ticket is issued in these subjects. Students are recommended to take the first six months of Clinical Surgery and Clinical Medicine with the same teacher.

CLASS SESSIONS.

There are Two Sessions in each year, viz. :—

- I. The Winter Session, which opens on Tuesday, 14th October 1919, and closes on Friday, 12th March 1920. The Classes will meet for the last time before the Christmas Vacation on Friday, 19th December 1919, and will reassemble on Tuesday, 6th January 1920.
- II. The Summer Session, which opens on Tuesday, 20th April, and closes on Wednesday, 30th June 1920. Graduation Ceremonials in Medicine, etc., will be held on Friday, 19th December 1919, and Thursday, 8th July 1920.

MATRICULATION, ENTRY FOR CLASSES, ETC.

Matriculation consists in paying annually an entrance fee to the University, and in inscribing the name in the Students' Album.

The Matriculation Fees are :—

For the Academic Year, 1st October to 1st October . . . £1 1 0
 For the Summer Session only, 1st April to 1st October . . . 0 10 6

Note.—Candidates for Examination or for Graduation must pay the Matriculation fee of £1, is., unless previously matriculated for the whole year.

All Candidates for Degrees, not Students of the University, availing themselves of the permission to attend the Classes of Extra-Academical Teachers in Edinburgh, must conform to the Regulations, IX., 5, 6, p. 589.

University Entrance Fee, in lieu of Matriculation, for each of certain Courses specified in the Programme of Classes, when not taken for Graduation £0 5 0

Payment of the Entrance Fee does not entitle the student to a certificate of attendance, nor confer any other University privilege.

Students who do not intend to graduate in Medicine in this University may attend any of the Classes in the Faculty on payment of the Matriculation and Class Fees. Those who intend to graduate must pass the Preliminary Examination, before attendance on any Class will qualify for Graduation. Women are admitted to Graduation.

Students are required to take out their Matriculation and Class Tickets not later than fifteen days after the beginning of the Session.

All Students commencing their Studies must call to see the Dean (Faculty Office, University New Buildings) during the first fortnight of the Session.

Mrs Garden Blaikie, M.B., Ch.B. (Cambridge Teacher's Certificate of Distinction), who has been appointed Lady Warden, will attend in her office in the University New Buildings, from 10 to 12.30 and from 2 to 4, from 1st October and throughout the terms of the academical year. Women Students of all Faculties are desired to see the Lady Warden at her office during the first fortnight of the Session.

REGISTRATION WITH GENERAL MEDICAL COUNCIL.

Immediately after entering on Medical study, students must register with one or other of the Registrars of the General Medical Council. The office of the Registrar for Scotland is at 20 Queen Street, Edinburgh, where forms of Registration, and all information on the subject, may be obtained.

Candidates for Registration must produce evidence that they have attained 16 years of age, that they have passed a Preliminary Examination admitting to the University Course, and that they have entered upon Medical Study.

OPPORTUNITIES FOR HOSPITAL PRACTICE.

Royal Infirmary, Edinburgh.—900 beds. Perpetual Ticket, in one payment, £12; Annual Ticket, £6, 6s.; Six Months, £4, 4s.; Three Months, £2, 2s.; One Month, £1, 1s. Separate payments, amounting to £12, 12s., entitle to a Perpetual Ticket.

Royal Edinburgh Hospital for Sick Children.—120 beds, of which 50 are reserved for Surgical Cases. Hospital Ticket for one year, £1, 1s., entitling Student to attend the General Practice of the Hospital, including the Out-patient Department.

Edinburgh Royal Maternity and Simpson Memorial Hospital.—40 beds available for Clinical Instruction. The fee charged is:—For three months' course, consisting of Internal Clinical Instruction and 12 practical cases, £3, 3s. (See VIII., 12, p. 587.)

City Hospital, Colinton Mains.—For Fevers and Infectious Diseases. Number of beds, 600. Fee for the course, £1, 1s.

Royal Mental Hospital, Morningside.—500 beds, available for Clinical Instruction to members of the Class of Mental Diseases. The fee for the course is £2, 2s.

Total number of beds available for the Clinical Instruction of Students of the University, 2160.

TUTORIAL CLASSES, ETC.

Tutorial Classes in Clinical Medicine and in Diseases of Women are held in the Royal Infirmary, by the Clinical Tutors, under the superintendence of the Clinical Professors and Senior Lecturers.

Tutorial Classes of Clinical Surgery and Surgical Pathology, are held in the Wards of the Royal Infirmary, by the Clinical Tutors, under the superintendence of the Professor and the Senior Lecturers. Opportunities are also given for the study of fresh specimens, illustrating surgical diseases and injuries.

Practical Anæsthetics.—A Course of Six Lectures is given by the University Demonstrator, J. Stuart Ross, M.B., Ch.B., three times a year, commencing in October, January, and April.

Tutorial Class in Midwifery and Gynecology, under the superintendence of the Professor and Drs Barbour and Ballantyne, assisted by R. W. Johnstone, M.A., M.D.

Ophthalmology.—Practical Instruction in the use of the Ophthalmoscope, and in the detection of errors of refraction, is given to members of the Classes of Diseases of the Eye, at the Eye Wards of the Royal Infirmary, by the Clinical Tutor, under the Superintendence of the Lecturers.

Diseases of the Larynx, Ear, and Nose.—Clinical Instruction to the classes is given by the Lecturers, in the Out-patient department, Royal Infirmary, daily, at 11 o'clock. Tutorial Instruction in the Practical Methods of examining patients, and in the use of instruments and appliances, is given by the Clinical Tutor, at suitable hours.

Diseases of the Skin.—Tutorial Instruction in the Practical Methods of examining patients, of using the microscope in the diagnosis of cutaneous affections, in the employment of instruments and the application of remedies, is given at suitable hours, under the superintendence of the Lecturers, Dr Norman Walker and Dr Frederick Gardiner.

Diseases of Children.—Clinical Instruction is given in the Wards, Out-patient department, and Post-mortem room at the Royal Hospital for Sick Children.

The Royal Mental Hospital is open to members of the Class of Mental Diseases, for Practical Instruction, under the superintendence of the Physician-Superintendent.

COURSES OF INSTRUCTION IN THE FACULTY OF MEDICINE.

CHEMISTRY.

PROFESSOR BARGER and LECTURERS.

1. LECTURES, daily during the Winter Session, at 12 noon.—In the lectures the general laws of chemical action are explained and illustrated.

The chief non-metallic elements and their more important compounds are discussed in some detail. The metals and the different series of metallic salts are considered more generally, details being given in the case of the more important substances.

The principles upon which the classification of organic substances is based are explained, and the properties of the chief groups illustrated by means of examples selected as far as possible for their physiological and pharmacological interest.

For synopsis of other classes in Chemistry, and for Chemical Laboratory, see under FACULTY OF SCIENCE.

2. MEDICAL PRACTICAL CHEMISTRY.—The work of this Class consists in the study of the preparation and reactions of the commoner salts, etc., and of typical organic substances, together with simple volumetric determinations.

PHYSICS.

PROFESSOR BARKLA and DR CARSE, *Lecturer*.

The subjects embraced in the Course of Physics are :—

1. Properties of Matter—including Statics and Kinetics of Solid, Liquid, and Gaseous Bodies, Kinetic and Potential Energy, Diffusion, Surface Tension, Capillarity.

2. Sound, and Wave-propagation in general, Intensity, Pitch, and Quality of Musical Sounds, Interference.

3. Heat, its Nature, Effects, Measurement, Transference, and Transformations ; Measurement of Temperature and of Humidity ; Energy Relations, Horse Power, Efficiency.

4. Light and Radiant Energy, Laws of Reflection and Refraction ; Production of Images in Mirrors, Lenses, and Microscopes ; Conditions of Distinct Vision ; Interference, Dis-

person, Diffraction, Double Refraction, Polarization ; Radiation and Absorption ; Fluorescence and Phosphorescence ; Heat Rays and Actinic Rays ; Theory of Exchanges ; Spectrum Analysis.

5. Electricity and Magnetism ; Capacity, Potential, Electromotive Force, Current, Resistance, Magnetic Field ; Ohm's and Joule's Laws ; Thermo-Electricity ; Electrolysis ; Induction of Currents ; Batteries, Galvanometers, Voltameters, Induction Coils, Dynamos ; Radioactivity.

The Course is now arranged so as to include in the fifty meetings of the Class a certain number of meetings in which the students themselves perform important experimental measurements in the Laws of Gases, Specific Gravity, Calorimetry, Properties of Thin Lenses, Electrical Resistance, Electrolysis, Induction of Currents, and the like.

Books of reference : Knott's *Physics* ; Daniell's *Physics for Medical Students*.

ZOOLOGY.

PROFESSOR EWART and PROFESSOR ASHWORTH.

1. LECTURES ON ZOOLOGY.—*Summer Session*.—The Course will treat of the Principles of Biology as illustrated by the Life-History, Morphology, and Physiology of a series of Vertebrate and Invertebrate types. Special attention will also be directed to the structure and life-history of the more important human and animal parasites, and of the Insects and other Arthropoda which transmit disease. The rest of the Course will be devoted to the Elements of Embryology, Classification, and Geographical Distribution of Animals.

Winter Session.—A similar Course, which may be attended by women students, qualifying for the First Professional, will be given by the Professors.

2. ELEMENTARY PRACTICAL ZOOLOGY.—*Winter and Summer Sessions*.—In these classes students have the opportunity of studying practically the more important types described in the lectures, including Amœba, Paramœcium, Monocystis, Hydra, Obelia, Nereis, Arenicola, Helix, Nephrops, Raia, Rana, Columba, and Canis (skull only).

3. **ADVANCED COURSES IN ZOOLOGY AND COMPARATIVE ANATOMY.**—These Courses are intended for students preparing for the Degree of B.Sc.

(1) Professor Ashworth will give a Course during the Summer Session, dealing with some portion of the Invertebrata.

(2) Dr J. Beard, University Lecturer on Comparative Embryology and on Vertebrate Zoology, will give Courses on these subjects during the Winter Session.

(For particulars of these classes, and of requirements for Final B.Sc. Examination, see FACULTY OF SCIENCE.)

RESEARCH WORK.—The Laboratories are also available during both Sessions for research.

ELEMENTARY BOTANY.

PROFESSOR BALFOUR.

Summer Session.

1. **LECTURES.**—The Course is a general one—Organographical, Physiological, and Taxonomic. Lectures are given every Monday, Tuesday, Thursday, and Friday.

2. **DEMONSTRATIONS.**—On Wednesdays.

3. **PRACTICAL CLASS.**—In this Class opportunity is given for the examination of microscopic structure of plants, and for the study of life-histories of plants illustrating the lectures. It is conducted by the Professor and Assistants.

4. **EXCURSIONS.**—Excursions are made on Saturdays for the practical study of plants in the field.

The Royal Botanic Garden, with the Museum and Herbarium, are open daily for the examination of living as well as preserved specimens of plants.

ANATOMY.

PROFESSOR ROBINSON and PROFESSOR SIR HAROLD J. STILES,
with E. B. JAMIESON, M.D., F. E. JARDINE, M.B., Ch.B.,
W. Q. WOOD, M.D., Ch.B., etc., *Lecturers.*

JANET SMITH, M.B., Ch.B., *Assistant.*

Winter Courses.

1. LECTURES ON ANATOMY, at 11 A.M.—It is intended in this Course to bring before the student, in a systematic manner, the structure of the Human Body. The different systems and organs will be described, and their development and growth explained. The lectures are illustrated by recent dissections, by wet and dry preparations, by a large collection of Osteological specimens, and by drawings, diagrams, and lantern slides.

To assist the members of the Lecture Class, Tutorial Demonstrations will be given during both the Autumn and Spring Terms. These are open without additional fee to the members of the Class.

All the members of this Class have access to a systematically arranged series of osteological specimens and of models. Written Examinations are held periodically during the Session.

2. PRACTICAL ANATOMY, under the superintendence of the Professor, aided by the Lecturers and Assistants. Examinations of both Junior and Senior Students on dissected parts and by means of written papers are conducted by the Professor and the Demonstrators. Tutorial Demonstrations will be given to Senior Students on special subjects.

This Course will commence on 14th October. The Dissecting-rooms are open from 9 A.M. to 5 P.M., and on Saturdays from 9 A.M. to noon. The Mackenzie Bursaries are awarded to members of this Class for proficiency in dissection.

Textbook.—Cunningham's *Manual of Practical Anatomy.*

Regional Anatomy (Anatomical Demonstrations).

In this Course, which is conducted in the Theatre, the structure of the human body is displayed and demonstrated

topographically. The Course continues through all three terms of every annus medicus, and students may enter at any time.

The Course is adapted for students of the second and later years.

Class of Applied Anatomy.

(MEDICAL AND SURGICAL.)

PROFESSOR SIR HAROLD J. STILES, assisted by LEWIS
BEESLY, F.R.C.S.E.

This Course is conducted in the Theatre by Professor Stiles. It will consist of the following :—

1. Demonstrations of Surface Anatomy on the living subject.
2. Demonstrations of those points in Anatomy which have a special bearing on practical Medicine and Surgery. This part of the Course will be illustrated by dissections and also by lantern slides. The normal anatomy of the body as shown by X-rays will likewise be exhibited.

The entire Course will consist of not less than thirty demonstrations, and these will be given during the Autumn Term.

Summer Courses.

Practical Anatomy.

PROFESSOR ROBINSON.

This Course, beginning on 20th April, is conducted in the same manner as in Winter. The Rooms are open from 9 A.M. to 5 P.M.; on Saturdays from 9 A.M. to noon. Examinations are conducted on dissected parts by the Professor and his Assistants, and the joints, brain, and organs of sense will be specially demonstrated.

Regional Anatomy (Anatomical Demonstrations).

The Course of Demonstrations on Regional Anatomy continues through all three terms of every annus medicus, and students may enter at any time. The Topographical Anatomy of the human body is described and exhibited by recent dissections, and by other specimens. The study of Surface Anatomy also forms an important part of the Course.

COURSES IN ANATOMY FOR DIPLOMA IN PSYCHIATRY.

PROFESSOR ARTHUR ROBINSON and DEMONSTRATORS.

Ten Meetings of two hours each.

1. General Characters of Brain.
2. Convolutions and Sulci.
3. Cavities.
4. Commissures.
5. Grey Matter.
6. The More Important Tracts.
7. The Blood Supply.
8. The Membranes.
9.) Development, including Sympathetic System.
10.)

Candidates for this Diploma can take this Course at any time, by arrangement with the Professor.

PHYSIOLOGY.

PROFESSOR SIR EDWARD SHARPEY SCHAFER, with W. W. TAYLOR, M.A., D.Sc.; MAY L. WALKER, M.A., B.Sc., M.B.; R. K. S. LIM, M.B.; and A. NINIAN BRUCE, D.Sc., M.D., *Lecturers*. RUTH FAIRBAIRN, B.Sc.; R. J. S. M'DOWALL, M.B.; H. DRYERRE, M.R.C.S.Eng.; and DOROTHY CHARLTON, *Assistants*.

Systematic Course.

Course of about 100 Lectures or Demonstrations, held in Winter.

The Course includes the microscopic structure of the tissues and organs; the physiology of the muscular, nervous, circulatory, respiratory, and digestive systems; the functions of the internally secreting glands and of the reproductive organs; the physiology of the central nervous system; and the chemical composition of the food and body, and the changes which occur in digestion and metabolism. This part of the subject is dealt with by Dr W. W. Taylor, the Lecturer on Chemical Physiology.

General Course of Practical Physiology.

This Course is divided into three sections—

SECTION 1.—EXPERIMENTAL PHYSIOLOGY.

The methods which are employed to investigate the functions of muscle, nerve, heart, respiration, sense-organs, etc., are studied, and the results recorded by graphic methods.

This Course occupies three months.

Classbook.—Schafer's *Experimental Physiology*.

SECTION 2.—PRACTICAL CHEMICAL PHYSIOLOGY.

For the study of the methods which are employed in the investigation of the Chemistry of Proteins, Fats, Lipoids, Carbohydrates, Blood, Milk, Bile, Digestion, and Urine.

This Course occupies three months, and is held in the second half of the Winter Session.

Classbook.—Cramer's *Directions for Class work in Chemical Physiology*. Also one of the following *Textbooks*: Milroy's *Practical Physiological Chemistry*, or Plimmer's *Practical Physiological Chemistry*.

SECTION 3.—PRACTICAL HISTOLOGY.

The minute structure of the tissues and organs of the body is studied practically in this Course. Each student is provided with a microscope, and all reagents

Textbooks.—Schafer's *Essentials of Histology* and *Textbook of Microscopic Anatomy*.

This Class is held in Summer.

Each meeting of the Class of Practical Physiology occupies two hours. Students may use the Laboratory at certain other times if they are unable to complete their work satisfactorily within the time allotted.

In all the Practical Classes, a small fee is charged to cover the cost of materials, note books, etc.

No certificate of satisfactory attendance is granted in any of the sections of Practical Physiology without the production of the records of work, and the Class certificates and medals are allotted mainly according to the character of the work done in the Class.

Opportunity for revision of practical work will be given prior to each of the Second M.B. Examinations, for students who have already obtained certificates of attendance on the Ordinary Courses. The fee for one month is £1, 1s. No ticket will be furnished for a Revision Course without authorisation from the Professor.

Advanced Course of Practical Physiology.

This Course is divided, like the General Course, to which it is supplementary, into three sections: Experimental, Chemical, and Histological.

See Synopsis under FACULTY OF SCIENCE.

Special Course on the Physiology of the Nervous System.

Experimental Study of Nervous System.

Conducted by DR A. NINIAN BRUCE.

Varieties of nerve-fibres and of stimuli. Effects produced by nerve stimulation. Propagation of nerve impulses. Excitability and conductivity of nerve. Electrical response of nerve. Tone of nerve and muscle. Fatigue. Functions of spinal cord and medulla oblongata. Reflex action. Functions of brain.

Histology of Nervous System.

Conducted by DR A. NINIAN BRUCE.

Methods special to nervous system. Structure of nerve cells and fibres. Effects of section of nerve. Degeneration and regeneration. Development and growth. Structure of neuroglia. The spinal cord—Characters of regions—Cell-groups. Tracts of spinal cord—Methods of tracing (*a*) by myelination, (*b*) by degeneration after injury. Medulla oblongata and pons Cerebellum. Mid-brain. Thalamus and hypothalamus. Corpus mammillare. Corpus striatum. Regions of cerebral cortex. Ganglia. Nerve endings.

Chemistry of Nervous System.

Conducted by DR W. W. TAYLOR.

Qualitative and Quantitative Methods. Products of decomposition. Cerebro-spinal fluid.

A small fee is charged in each Practical Course to cover the cost of materials.

Physiological Research.

The Laboratory of Physiology is open throughout the year for the prosecution of Research. Such work is carried on under special regulations, for which application must be made to the Professor.

PATHOLOGY.

PROFESSOR LORRAIN SMITH, with JAMES MILLER, M.D., and D. MURRAY LYON, M.B., Ch.B., *Lecturers*. ANDREW RUTHERFORD, M.B.; GEORGE RICHARDSON, M.B.; PETER MACALLUM, M.B.; and B. J. RYRIE, M.B., *Assistants*. RICHARD MUIR, *Demonstrator of Pathological Methods*.

The Winter Course includes :—

A. General and Special Pathology.

B. The General Principles of Bacteriology and the Study of the Commoner Pathogenic Micro-organisms and their Relation to the Processes of Disease.

The various Practical Courses are arranged to bring the teaching of Pathology as far as possible into direct connection with the study of the clinical manifestations of disease.

While the Systematic Course is in progress, opportunities are afforded for practical work in connection with the lectures, and practical instruction is given in Morbid Histology and Applied Pathology; a Course of Elementary Bacteriology by Professor Ritchie is included. There is also a Course in Clinical Bacteriology.

A teaching collection of Specimens has been prepared and so arranged that the Students are able to study the effects of disease and follow out the complete series of pathological changes which are observed in the various organs of the body in individual cases. For each case there has been prepared a report giving full details of the Clinical History, Post-mortem Examination, and Microscopical Investigation of the Morbid-Tissues.

There is also a Course of Lecture Demonstrations, supplementary to the Lectures.

PRACTICAL MORBID ANATOMY AND APPLIED PATHOLOGY.

During each term, a course of instruction is given in Morbid Anatomy and Applied Pathology in the Pathological Department at the Royal Infirmary.

In this Course the Students have practical instruction in making autopsies, in the detailed investigation of the affected organs and tissues, and in drawing up reports.

Students are required to attend this Course for one term before appearing for the Professional Examination in Pathology.

They must have Hospital Tickets during this Course.

Practical Pathology.

This Class is held in the Summer Term and is divided into Senior and Junior sections. Each section meets for two hours three days a week.

The morning hours of meeting are from 8 to 10 A.M., and the afternoon hours from 2 to 4 P.M.

The Senior section completes the practical work in Morbid Histology begun in connection with the Winter Lectures. Subsequently a series of individual cases is studied, and reports, with a description of the organs and tissues and a full discussion of the pathology of the case, are written and handed in for criticism.

The work of the Junior section is confined to Morbid Histology. (In the following winter the Junior section completes its programme of practical work.)

JUNIORS are those commencing the study of Pathology for the first time. SENIORS are those who have already attended either the Lectures or the Class of Practical Pathology.

Microscopes and Reagents are supplied.

A small charge is made for slides and cover slips.

Textbooks.—Pembrey and Ritchie, *General Pathology*; MacCallum, *A Textbook of Pathology*; Shennan, *Post-Mortems and Morbid Anatomy*; Beattie and Dickson, *General and Special Pathology*; Adami and M'Crae, *A Textbook of Pathology*; Miller, *Practical Pathology*; Muir and Ritchie, *Manual of Bacteriology*, 7th ed.

BACTERIOLOGY.

PROFESSOR JAMES RITCHIE, with J. E. MACARTNEY, M.B.,
and A. V. DILL, M.B., *Assistants*.

Senior Bacteriology.

This Course is intended for Senior Students of Medicine ; for graduates and for those preparing for the Degree of B.Sc. in Veterinary Science, the Diploma in Tropical Medicine and Hygiene, and the Diploma in Psychiatry.

The Class meets for two hours on three days a week during the Summer term.

The Course is mainly practical. In its early part it includes the preparation of media, the study of the commoner types of pathogenic bacteria, and practice in elementary serological methods. Later the Class is divided into groups according to the different requirements of the members.

Those preparing for a Veterinary Degree will undergo a course of Comparative Bacteriology ; those studying Tropical Medicine will devote special attention to the bacteria associated with diseases occurring in tropical countries ; while students of Psychiatry and those intending to prosecute original research will receive special instruction in advanced serological methods.

Advanced Bacteriology.

This Course is intended for those who have already taken out Advanced Bacteriology, or who have undergone an equivalent degree of training in the subject. It meets in the Autumn term, and members of the class will require to be prepared to spend at least three hours daily in the Laboratory.

The main work consists in the practice of the more difficult cultural and serological methods, and exercises will be set which will involve a study of the original papers dealing with various branches of the subject.

Textbooks.—Muir and Ritchie's *Manual of Bacteriology* ; Hewlett's *Manual of Bacteriology* ; Jordan's *General Bacteriology* ; Besson (translation by Hutchens), *Practical Bacteriology, Microbiology, and Serum Therapy*.

MATERIA MEDICA.

PROFESSOR ARTHUR R. CUSHNY.

W. C. SILLAR, M.D., B.Sc., *Lecturer.*C. G. LAMBIE, M.B., *Assistant.*

The Course in Materia Medica comprises (A) a series of Lectures; (B) Demonstrations and Tutorial Classes held at convenient hours; and (C) the Practical Class.

(A) *Lectures on Materia Medica.*—This Course is devoted chiefly to discussion of the effects of drugs and poisons in the tissues of man and animals, and how these effects may be utilised to relieve or cure disease. The physical and chemical properties of the drugs are described only in so far as they concern their action and the methods of administration. A limited number of pharmaceutical preparations is taken up, but no attempt is made to cover all the official ones.

(B) The Demonstrations are used to illustrate the Lectures as far as is practicable, and for this purpose the Class is divided into sections, so that each student may see at any rate some of the effects of drugs in experiment. In the latter part of the Course a series of meetings of these sections are devoted to the discussion of the subject by way of questions and answers, and wherever possible the student is encouraged to make his own observations.

(C) In the Practical Class the student is given opportunity to examine the more important drugs in their crude form, and to form them into pharmaceutical preparations. He is also instructed in writing prescriptions and in dispensing medicines in suitable forms.

The Practical Class should be taken along with the chief Lecture Course, on which it is directly dependent. The whole Course is given in the Winter Session. The object aimed at is that the general effects and uses of drugs should be given in the Lectures and illustrated in the Demonstrations, while the methods of prescribing and dispensing them should be taught at the same time in the Practical Class. In this way the whole instruction is kept in due relation.

Experimental Pharmacology.PROFESSOR CUSHNY, with W. C. SILLAR, M.D., B.Sc., *Lecturer.*

A limited number of students will be admitted to this Course in the Summer Term. The members are instructed in the chief

methods used in pharmacological research, and perform experiments on animals, under superintendence. These are designed to encourage exactness in observation, and to analyse the action of drugs.

Pharmacological Research.

Every encouragement is given to advanced students and graduates to carry on research in Pharmacology and allied subjects. The Laboratories are open daily for this purpose, and all necessary apparatus and chemical substances are available. This department is under the direct superintendence of the Professor, to whom application should be made for admission to research work.

FORENSIC MEDICINE.

PROFESSOR HARVEY LITTLEJOHN.

This Course will embrace, so far as possible, the following subjects :—

Legal responsibilities and duties of medical men ; methods of judicial investigation ; procedure in Courts of Justice ; medical evidence—oral and documentary.

Death in its medico-legal relations ; certification of death ; the signs of death and post-mortem changes ; the medico-legal examination of the dead body.

Modes of death

Sudden death : its causation and medico-legal importance.

Identity of the living and of the dead.

Death from violence and unnatural causes.

Suicide.

Death from wounds and the consideration of various questions connected with mechanical violence.

Death from asphyxia ; drowning ; hanging ; strangulation ; suffocation, etc

Death from burning ; firearms and explosives ; starvation ; extremes of temperature ; lightning and electric shock.

Medico-legal relations of pregnancy and delivery.

Criminal abortion.

Infanticide.

Criminal assaults on females ; rape.

The examination of blood and seminal stains.
Insanity in its medico-legal relations ; criminal responsibility ; lunacy certificates ; testamentary capacity.
Toxicology ; consideration of the general evidences of poisoning and of the poisons most frequently met with in practice, together with the symptoms and morbid appearances produced, the means of detection, and the treatment of poisoning.

These lectures will be supplemented by practical demonstrations embracing the examination of the dead body ; museum specimens ; blood and seminal stains ; hair and fibres, and the tests for poisons.

Every facility will be afforded to those who wish to obtain practical insight into any branch of the subject or to undertake research work.

Textbooks.—Dixon Mann's *Forensic Medicine and Toxicology* ; Glaister's *Medical Jurisprudence and Toxicology*.

PUBLIC HEALTH.

PROFESSOR HUNTER STEWART.

The Course consists of not less than forty Lectures and Demonstrations, and embraces the following :—

1. General consideration of pathogenic and non-pathogenic micro-organisms—Their nutrition—The effects of heat, light, and chemical substances—Toxins and anti-toxins—Immunity.
2. *Air, Climate and Soil.*—Variations in the chemical and bacteriological constituents and meteorological condition of the atmosphere as caused by seasonal and local conditions—Climate as determined by winds, temperature, moisture and altitude—Healthy and unhealthy climates—Sanatoria—Soil as affecting health.
3. *Water Supply.*—Sources—Filtration—Storage—Causes of contamination.
4. *Habitation as affecting Health.*—Site and exposure—The dwelling—Air-space—Ventilation—Sewage and refuse removal and disposal—Sanitary fittings.
5. *Foods.*—Milk—Animal foods—Cereal foods—Adulteration—Preserved foods—Food-poisoning.

6. Vital statistics—The duties of the medical practitioner under the Public Health Acts and other Acts bearing on Public Health.

7. Causes of the occurrence and spread of the more commonly met with infective diseases—Means of prevention—Isolation hospitals—Disinfection of clothing, of rooms, and of emanations from the sick.

8. School hygiene.

9. Disposal of the dead.

Research Laboratories in the John Usher Institute of Public Health.—Several research rooms have been fitted up in the Institute for research in Bacteriology and Bacteriological Chemistry under the direction of the Professor, assisted by J. Buchanan Young, M.B., D.Sc. (Public Health). Application to be made to the Professor.

SURGERY.

PROFESSOR ALEXIS THOMSON, C.M.G.

Winter Session.

1. *Lectures.*—This Course of 100 Lectures and Demonstrations is devoted to a systematic consideration of the Principles and Practice of Surgery. Each Course is intended to embrace, as far as possible, a complete view of the present aspects of the Science and Practice of Surgery. During the Autumn Term (October to December), the General Principles of Surgery, during the Spring Term (January to March) Regional Surgery will be discussed.

A written examination is held at the end of each term, and at the end of the Session a practical examination is held on the work of the Tutorial Classes.

2. *Tutorial Instruction*, at hours convenient for the students includes—

Practical Instruction (on the living subject) in *Bandaging* and the *Treatment of Fractures and Dislocations*. This Class is divided into sections.

Summer Session.

This Session is devoted to the Practical Aspects of Surgery. Special attention is given to Surgical Anatomy and Operative Surgery. Oral examinations and instruction in the uses of

Surgical Instruments, form a special part of the Course. Special demonstrations are also given on Surgical Anatomy.

The Surgical Laboratory for (1) Surgical Pathology and (2) Bacteriology, is open daily for original work during the Winter and Summer Sessions, under superintendence of the Professor, assisted by J. M. Graham, M.B., Ch.M., F.R.C.S.; A. Pirie Watson, M.A., M.B., Ch.M., F.R.C.S.; and by R. C. Alexander, M.A., M.B., F.R.C.S. Applications to be made to the Professor.

Textbooks.—Winter Session: *System of Surgery*, by Choyce and Beattie; *A Textbook of Surgery*, by Richard Warren; Da Costa's *Manual of Modern Surgery*; Thomson and Miles' *Manual of Surgery*, 5th edition. Summer Session: Binnie's *Operative Surgery*; Kocher's *Operative Surgery* (translated by H. J. Stiles); Treves' *Surgical Applied Anatomy*; Rawling's *Landmarks and Surface Markings*; *Operative Surgery*, Thomson and Miles.

SURGICAL PATHOLOGY.

JAMES M. GRAHAM, M.B., Ch.M., *Lecturer*.

The Course, which is only open to Students who have been members of the University Class of Surgery, will consist of a series of demonstrations on both general and regional Surgical Pathology.

The subject will be fully illustrated by naked-eye specimens from the Museum of the Surgery Department, and from the Anatomical Museum of the University. Microscopical slides will be shown by means of the Epidiascope.

X-ray photographs illustrating the morbid anatomy of surgical diseases will also be demonstrated.

The Course will consist of twenty demonstrations, and these will be given in January, February, and March.

CLINICAL SURGERY.

PROF. SIR HAROLD J. STILES.

Senior Lecturers—PROF. ALEXIS THOMSON, C.M.G., J. W. B. HODSDON, M.D., DAVID WALLACE, C.M.G., M.B., ALEXANDER MILES, M.D., J. W. DOWDEN, M.B., C.M., A. A. SCOT SKIRVING, C.M.G., M.B. *Lecturers*—GEORGE L.

CHIENE, M.B., C.M., W. J. STUART, M.B., Ch.B., J. W. STRUTHERS, M.B., Ch.B., HENRY WADE, M.D., D. P. D. WILKIE, M.D., JOHN FRASER, M.D., Ch.M., JAS. M. GRAHAM, M.B., Ch.M., A. PIRIE WATSON, M.B., F. E. JARDINE, M.B.

The subjects of the Course are the symptoms, diagnosis, pathology, and treatment of surgical diseases and injuries as met with in the living body. Courses are conducted during each of the three University terms.

Clinical lectures are delivered on Mondays and Thursdays at 12 o'clock. Ward Clinics are held on these days from 11 to 12, and on Wednesdays from 11 to 1. Junior and senior sections will be formed as far as possible. Operations are performed on Tuesdays, Fridays, and Saturdays, from 11 o'clock onwards.

Tutorial instruction is given by the Clinical Tutors attached to the Wards, on two days a week at 7 P.M., and by the House Surgeons, on other days at the evening visit (7-8).

Students act as Clerks in the Wards and assist in the Operating Theatre.

Nine months' attendance on lectures is required, and the first six months should be taken with the same teacher. Attendance at the Ward Clinics is compulsory, and forms part of the Course.

A certificate of having acted as Dresser or Clerk in the Wards for a period of six months is required for graduation.

Details as to hours of instruction and arrangement of Clinical work are posted at the entrance to the various Surgical Wards in the Royal Infirmary.

PRACTICE OF MEDICINE.

PROFESSOR GULLAND, C.M.G.

The Course of Instruction comprises daily Lectures during the Winter Session on the aetiology, morbid anatomy, clinical history, diagnosis, prognosis, and treatment of—

I. General diseases.

II. The diseases of the different systems and organs of the body.

It is intended that each Course shall be, as far as possible,

a complete review of the present aspects of the Principles and Practice of Medicine

The Course is illustrated by specimens of morbid anatomy and by numerous drawings, diagrams, and charts from the Anatomical Museum, and from the Professor's private collection.

Tutorial Class.

Practical instruction in connection with the Course is given to the members of the Class by the Assistant.

Textbooks. — Osler's and Frederick Taylor's *Practice of Medicine*.

CLINICAL MEDICINE.

PROFESSORS BOYD, GULLAND, and MEAKINS.

Senior Lecturers—Prof. Sir R. W. PHILIP ; R. A. FLEMING, M.D. ; HARRY RAINY, M.A., M.D. ; D. CHALMERS WATSON, M.D. ; EDWIN BRAMWELL, M.D. *Lecturers*—EDWIN MATTHEW, M.D. ; W. T. RITCHIE, M.D. ; JOHN EASON, M.D. ; J. D. COMRIE, M.D. ; ALEXANDER GOODALL, M.D. ; CHARLES M'NEIL, M.A., M.D.

This Course is conducted jointly by Professors and Senior Lecturers, who are Physicians to the Royal Infirmary, with the assistance of the Lecturers, who are Assistant Physicians to the Royal Infirmary, and consists of Clinical Lectures, of Clinical teaching in the wards of the Royal Infirmary, and of instruction in chemical, microscopical, and other methods employed in the investigation of disease. Courses are conducted during each of the three University terms.

The Clinical Lectures are delivered by the Professors and Senior Lecturers twice a week in the two clinical medicine theatres, to senior and junior students separately.

Bedside instruction is given on at least three days a week to senior and junior students separately, with the assistance of the Lecturers.

A Tutor is attached to each physician, and gives tutorial instruction in practical methods to Students beginning Clinical Medicine.

Students are required to act for at least six months as Clinical Clerks in the wards

The posts of Resident Physician and of Clinical Assistant under the several physicians, are open to young graduates, and provide extended opportunities of post-graduate education.

TUBERCULOSIS.

PROFESSOR SIR ROBERT PHILIP.

Ordinary Course.

The Course deals generally with Tuberculosis, and more particularly with its practical aspects. It includes a survey, so far as possible, of the etiology, pathology, diagnosis, prophylaxis, and treatment of Tuberculosis. Special attention is directed to the clinical side.

The Course consists of 20 meetings, with additional practical demonstrations, and is open to matriculated students of the Final Year. The Course is held, as may be required, in two out of the three terms.

Advanced Course.

Facilities are given for more continuous work to students and graduates who may wish to specialise in the subject.

MIDWIFERY.

PROFESSOR SIR J. HALLIDAY CROOM.

Lecturer to Women Students—J. W. BALLANTYNE, M.D.

The Course of Instruction comprises Lectures on—

1. Anatomy and Physiology of the Female Organs of Reproduction.
2. Physiology of Pregnancy.
3. Physiology of Parturition.
4. Physiology of the Puerperal State.
5. Pathology of Pregnancy.
6. Pathology of Parturition.
7. Pathology of the Puerperal State.

Tutorial Classes.

Tutorial classes are held for Practical Instruction in the use of Obstetric and Gynecological Instruments and Appliances, by R. W. Johnstone, M.A., M.D.

Clinical Instruction.

Midwifery may be studied clinically in the Royal Maternity Hospital, of which the Professor is, *ex officio*, one of the Medical Officers, and where he attends during the first three months of the Winter Session, and conducts clinics daily, along with practical instruction in the conduct of labour.

Summer Session.

A Course of Instruction, conducted conjointly by the Professor of Midwifery and the Lecturer on Gynecology, in Advanced Obstetrics and Operative Gynecology, is given in the Summer Session.

Textbooks for reference.—Whitridge Williams', Edgar's; as textbooks, R. W. Johnstone's *Textbook of Midwifery*, and Berry Hart's *Guide to Midwifery*.

GYNECOLOGY.

A. H. F. BARBOUR, M.A., M.D., LL.D., *Lecturer on Gynecology.*

Twenty systematic lectures on the Diseases of Women will be delivered during the Winter Session, in connection with the University Class of Midwifery.

Textbooks.—Hart and Barbour's *Manual of Gynecology*; Barbour and Watson's *Gynecological Diagnosis and Pathology*; Berkeley and Bonney's *Gynecological Surgery*.

Clinical Gynecology.

Senior Lecturers—A. H. F. BARBOUR, M.D., LL.D., and N. T. BREWIS, F.R.C.S. *Lecturers*—J. HAIG FERGUSON, M.D., and WILLIAM FORDYCE, M.D.

Courses of about five weeks' duration are held throughout the Winter and Summer Sessions by the Lecturers in Wards XXXV

and XXXVI of the Royal Infirmary. Each Course consists of Clinical Instruction, including the major and minor gynecological operations, as well as the critical exposition and discussion of cases.

Tutorial instruction is given by R. W. Johnstone, M.A., M.D., and James Young, M.D.

As only a limited number of Students can be admitted to each Course of Clinics, early application for admission must be made at the respective Wards.

MENTAL DISEASES.

PROFESSOR ROBERTSON.

This Course consists of—

1. Systematic Lectures in the University during the Spring Term, on the Classification, Symptoms, Causes, and Treatment of Mental Diseases.
2. Clinical instruction in the "West House" of the Royal Asylum, Morningside, and in the National Hospital for the Training of Imbecile Children, Larbert, in the chief forms of Mental Disease. Students have the opportunity of personally coming in contact with and examining the cases, so as to learn the modes of managing and treating patients labouring under Mental Disease, and they are exercised in the diagnosis of Insanity and the drawing up of certificates; the aim being to enable them to recognise its symptoms, to distinguish its varieties, to adopt suitable treatment, and to advise the relatives as to sending the patient to an asylum. There is a clinical field of 500 beds.
3. Pathological demonstrations, naked eye, lantern, and microscopic, in the University and at the Royal Asylum, Morningside, of the Morbid Anatomy of Insanity.
4. Instruction in regard to the medico-legal and social relations of Mental Disease, and on its bearings and significance in ordinary medical practice.
5. Case-taking.

There are Resident Physicianships and Unqualified Clinical Clerkships in the Royal Edinburgh Asylum in connection with the Class, and there is a well-equipped laboratory under a Bacteriologist for the prosecution of clinical researches by those holding these appointments.

Textbooks.—Clouston's *Clinical Lectures on Mental Diseases*; *Clinical Psychiatry*, by Defendorf; Ford Robertson's *Textbook of Pathology, in relation to Mental Diseases*.

PSYCHIATRY LECTURES.

PROFESSOR ROBERTSON.

A.—The Ordinary Course consists of at least six Systematic Lectures and ten Clinical Demonstrations, and its object is a practical one, to describe the common varieties of insanity, to show typical examples of these, and to indicate their treatment and management, with a view to the requirements of general practice. The Certification of Insanity and its medico-legal relationships are also explained.

B.—The Special or Supplementary Course, consisting of at least nine Lectures, treats the whole subject in a more general way, and a few instructive forms in greater detail than the Ordinary Course. It likewise deals with research work and with current topics of interest in the journals devoted to mental disease. The following subjects will be lectured upon: 1. The History of the treatment of the insane and the evolution of the modern mental hospital; 2. the Etiology and Pathogeny of insanity, including heredity and degeneration; 3. the various Classifications of insanity; 4. the Symptomatology of insanity, including disorders of the senses, intellect, emotions, and volition; and 5. special consideration of the following forms of insanity: (*a*) Manic-Depressive Insanity; (*b*) Delirious (Toxic) Insanity; (*c*) General Paralysis of the Insane; (*d*) Dementia Præcox; (*e*) Epileptic States; and 6. the Therapeutics of Insanity.

CLINICAL INSTRUCTION ON THE DISEASES OF CHILDREN

(AT THE ROYAL HOSPITAL FOR SICK CHILDREN).

J. STEWART FOWLER, M.D., *Lecturer*, and the Staff of the
Royal Hospital for Sick Children.

The Course consists of clinical instruction on five days a week in the Wards, Lecture Theatre, and Out-Patient Departments of the Royal Hospital for Sick Children.

A Course is held during each Term, and students attend in sections.

In addition to clinical instruction, demonstrations are given in the Pathological Department of the Hospital and in the Surgical Out-patient Department, where a large number of minor surgical operations are performed daily.

DISEASES OF THE EYE.

W. G. SYM, M.D., and J. V. PATERSON, M.B., C.M., *Lecturers*.

Courses of Instruction are given in the Royal Infirmary three times a year, commencing in October, January, and April.

The Courses will consist of at least twelve systematic lectures, and of twelve or more clinical lectures, including operations.

In addition there will be meetings for individual clinical instruction, including Refraction and Ophthalmoscopy.

Textbooks.—Swanzy's *Handbook on Diseases of the Eye*; Sym's *Diseases and Injuries of the Eye*; May and Worth's *Diseases of the Eye*.

DISEASES OF THE LARYNX, EAR, AND NOSE.

A. LOGAN TURNER, M.D., and J. MALCOLM FARQUHARSON,
M.D., *Lecturers*.

Courses of instruction, each consisting of not less than twenty-five meetings, are given in the Royal Infirmary three times a year. The Courses commence in October, January, and April.

In the clinical lectures, patients are brought before the Classes and their condition is examined and discussed, and, where possible operative treatment is carried out. Methods of examination,

instruments and appliances used in diagnosis and treatment are demonstrated.

Arrangements will be made to enable students of the Classes to attend the out-patient clinics on two days during each week.

Tutorial instruction in the practical methods of examining patients, and in the use of instruments and appliances, is given by the Clinical Tutor at suitable hours in connection with the lectures.

DISEASES OF THE SKIN.

NORMAN WALKER, M.D., C.M., and FREDERICK GARDINER, M.D., B.Sc., *Lecturers*.

Courses of Instruction are given during each Term in the Royal Infirmary, consisting of not less than twenty lectures, delivered on Wednesdays and Fridays at 11 A.M., by Dr Walker, and on Tuesdays and Thursdays at 11 A.M., by Dr Gardiner.

Clinical instruction is given to each section of these Classes on one other day of the week at 11 A.M.

Textbooks.—Dr Norman Walker's *Introduction to Dermatology*, and Dr Arthur Whitfield's *Skin Diseases and their Treatment*.

HISTORY OF MEDICINE.

JOHN D. COMRIE, M.A., B.Sc., M.D., *Lecturer*.

This Course of lectures will deal with the History of Medical Knowledge and of the advances that have taken place in the practice of the healing art and in its related sciences.

The Course will consist of twenty lectures, which will be delivered in the Forensic Medicine Class Room, at 4 P.M. on Tuesdays and Fridays during the Winter Session. It will include lectures upon Ancient, Mediæval and Early Modern Medicine, with a consideration of extracts from the writings of the more important medical authors, and short accounts of the rise of the various medical schools.

The subject of an Essay for competition for the Wellcome Medals and Prizes is announced in October.

The Course is intended for senior matriculated students, to whom it is free. Others may attend on payment of a fee of 15s. and 5s. Entrance Fee.

NEUROLOGY.

J. J. GRAHAM BROWN, M.D., *Lecturer.*

The aim of this Course is to present to the student a view, as far as possible complete, of the field of Neurology, in its present state of development. The ætiology, pathology, symptoms, diagnosis, and treatment of the various nervous diseases met with in practice will be discussed and illustrated.

The Course will consist of from forty to fifty lectures, systematic or clinical, conducted during the first half of the Winter Session.

CLINICAL NEUROLOGY.

J. J. GRAHAM BROWN, M.D., *Lecturer.*

The aim of this Course is to discuss and to illustrate clinically certain typical varieties of nervous disease, especially such as are likely to be met with in association with mental disorders.

PHYSICAL METHODS IN THE TREATMENT OF DISEASE

HARRY RAINY, M.A., M.D., *Lecturer.*

The Course consists of twenty-five lectures and demonstrations, and includes the consideration of the following subjects:—Electrotherapy, Radiotherapy, Phototherapy, Massage and Medical Gymnastics, Hydrotherapy and Balneology, Climatic Therapeutics and Sanatorium Treatment.

The Subjects are considered both from the theoretical and the practical standpoint.

The Course is conducted during the Autumn Term.

DISEASES OF TROPICAL CLIMATES.

LIEUT.-COL. D. G. MARSHALL, M.B., I.M.S., *Lecturer.*

The Course consists of from twenty-five to thirty lectures, and is held twice yearly, commencing October and April. It comprises:—

- I. GENERAL INFECTIONS.—*Protozoal Diseases.*—1. Malarial and Blackwater Fever; 2. Kala-Azar; 3. Trypanosomiasis, and Sleeping Sickness; 4. Relapsing Fever and Tick Fever; 5. Yaws; 6. Epidemic Jaundice; 7. Rat Bite Fever; 8. Trench Fever.

Bacterial Diseases.—1. Undulant Fever ; 2. Tropical Enteric Fever ; 3. Plague ; 4. Cholera ; 5. Leprosy.

Diseases of Undetermined Etiology.—1. Yellow Fever ; 2. Dengue ; 3. Beriberi ; 4. Pellagra ; 5. Spotted Fever of Rocky Mountains ; 6. Sprue ; 7. Hill Diarrhœa ; 8. Papataci Fever.

2. LOCAL INFECTIONS.—1. Liver Abscess ; 2. Dysentery.

3. CLIMATIC DISEASES.—Sunstroke and other Diseases due to Heat.

4. ENTOZOAL DISEASES.—(a) NEMATODES : 1. Filariasis ; 2. Ankylostomiasis ; 3. Guinea Worm ; (b) TREMATODES : 1. Schistosomiasis, including Bilharzial Disease, etc.

5. TROPICAL ULCERS AND SKIN DISEASES.—1. Oriental Sore ; 2. Mycetoma ; 3. Tinea Imbricata ; 4. Dhobi's Itch ; 5. Chigger.

6. Local and general effects caused by bites of snakes, leeches, insects, rats and other animals, wounds by poisoned arrows.

TROPICAL HYGIENE.

PROFESSOR HUNTER STEWART and J. BUCHANAN YOUNG,
M.B., D.Sc. (P.H.).

The Course consists of twelve lectures and twenty two-hour periods of Practical Work in the Laboratory, and includes the following :—

Tropical and Sub-tropical Climates—How affected by Nature of Soil, Altitude, Proximity to the Sea, Rainfall, Presence or Absence of Vegetation, and Moist or Dry Winds—Practice in the Use of Meteorological Instruments.

Influence of Climate in Health and in Disease. Acclimatisation.

Personal Hygiene.—Diet, Clothing, Ablution, and Exercise.

General Characters of Clay, Sandy, and Alluvial Soils.—Determination of Water Capacity and Permeability of Soils

Site and Construction of Dwellings—Selection and Preparation of sites for Dwellings, Hospitals, Camps, etc.—Suitability of Different Building Materials—Cubic Space—Light—Ventilation—Cooling of the Air.

Practical Examination of the Air of occupied Rooms.

Water Supply—Rain, Rivers, and Wells as Sources—Sand Filtration—Storage, Distribution, and Cooling—Use of Domestic and Camp Filters—Purification of Drinking Water—Chemical and Bacteriological Examination of Water.

Foods.—Milk—Farinaceous and Animal Foods—Beverages—Tinned and other preserved Foods—Food Poisoning.

Microscopical and Chemical Examination of the more important Articles of Diet.

Drainage and Disposal of Refuse—Purification of Sewage, and Prevention of Pollution of Rivers—General Sanitation of Native Quarters, Camps, Factories, Plantations, Pilgrim and Coolie Ships, etc.

Destruction of Disease-carrying Animals (including Insects) in Houses, Ships, etc.

Disinfection of Ships, Dwellings, Clothing, and of Discharges from the Sick, etc.—Practice in the Preparation and Use of Disinfecting Solutions, and in the testing of their germicidal power.

Sanitary Administration of General and Infectious Diseases Hospitals.

MEDICAL ENTOMOLOGY AND PROTOZOOLOGY.

PROFESSOR ASHWORTH.

This Course will consist of about thirty-two meetings of two hours each ; and is held twice a year (if necessary).

Lectures and Demonstrations will be given on :—

The Diptera, general survey of the Order. The Life History, Anatomy, and Habits of Culicidæ, especially of *Culex*, *Stegomyia*, and *Anopheles*. The Classification of Culicidæ. The Characters, Life History, Anatomy, and Habits of the Tsetse-flies (*Glossina*), and of other Blood-sucking Flies, *e.g.*,

Culicoides, *Phlebotomus*, *Simulium*, Tabanidæ, *Stomoxys*, *Hæmatobia*, *Lyperosia*, etc., Pupipara. The Congo Floor-maggot. Myiasis. The House-fly, its Life History and Habits. Blow-flies. The Classification of Diptera. Siphonaptera. Rhynchota. Anoplura. Mallophaga. The Characters, Life History and Anatomy of Ticks, especially of *Ixodes* and *Ornithodoros*. The Classification of Ticks. Sarcoptidæ. Harvest Mites. Pentastomida. The Poison Apparatus of Snakes and other Venomous Animals, e.g., Centipedes, Scorpions, etc.

PROTOZOOLOGY.—SARCODINA. A general account of *Amæba*, "*Amæba limax*." *Entamæba coli*, *histolytica*, *nana*. CILIATA. A general account of *Paramæcium*. *Balantidium*, *Nyctotherus*. FLAGELLATA. *Trichomonas*, *Chilomastix*, *Lambliæ*, *Cercomonas*, *Prowazekia*. Trypanosomes. *Trypanosoma gambiense*, *rhodesiense*, *cruzi*. *Leishmania*. *Crithidia*, *Herpetomonas* (*Leptomonas*). SPOROZOA. A general account of *Monocystis*. A general account of *Eimeria* (*Coccidium*) with special reference to the sexual cycle. Malarial parasites. Halteridia. Hæmogregarines. *Babesia* (*Piroplasma*). Myxosporidia. Sarcosporidia. Haplosporidia. *Rhinosporidium*. *Histoplasma*. Spirochaetes, *Spirochaeta*, *Treponema*, *Leptospira*. Chlamydozoa.

In the Laboratory, members of the Class will study examples of the principal divisions of the Protozoa, will make dissections and other preparations of various insects and ticks, and of some venomous snake, and will examine a series of museum preparations and microscopic slides illustrating the life history and the anatomical and systematic characters of insects and ticks.

PSYCHOLOGY.

JAMES DREVER, M.A., B.Sc., D.Phil., *Lecturer*.

This Course consists of Lectures and Laboratory Work, and will deal with the following among other subjects :—

I. Outline of the general principles and methods of Mental Science—

The general characters and forms of mental experience. Mental development. Subconscious and unconscious states of mind. The relation between normal and abnormal states. The

normal personality; alterations of personality. The mental condition in hysteria.

Introspection and psychological analysis. The function of experimental procedure in mental science: its relation to physiological methods. The application of experimental methods to the study of abnormal processes. The employment of statistical methods. Applied Psychology. The methods and psychological relations of Eugenics.

II. Special study of the following subjects, reference being made to the connection between normal and morbid conditions. Attention will be given more particularly to experimental investigations—

Perception and ideation: Sensation, perception of space and time. Imagery, association of ideas, memory. Belief and related processes.

Attention: Its nature and laws; its function in mental development. The place of suggestion in mental life.

States of feeling: The simpler affective processes; emotion, sentiment, mood: temperament.

Active processes: Instinct and habit, impulse and volition; reaction processes; fatigue.

INFECTIOUS FEVERS.

ALEX. JAMES, M.D., and CLAUDE B. KER, M.D., *Lecturers.*

The Course consists of twelve Clinics at the Edinburgh City Hospital, the students being divided into sections, each section attending once weekly throughout the Session. Courses are held during each term.

Attention is paid chiefly to diagnosis and management. It is usually possible to give adequate demonstrations of all the more common infectious diseases.

Textbook—Dr Ker's *Manual of Fevers.*

POST-GRADUATE COURSES IN THE FACULTY OF MEDICINE.

The systematic Courses are given in the University Departments. The clinical Courses are given in the Royal Infirmary and other Hospitals recognised by the University for teaching purposes.

Facilities for Advanced Study and Research.

ADVANCED COURSES OF STUDY.

Courses of advanced study have been instituted in connection with the Diplomas in Tropical Medicine and Hygiene, Psychiatry, and Public Health. The University also takes part in the Courses in Medicine, Surgery, and Midwifery, which are conducted by the Post-Graduate Committee throughout the year, and these Courses afford an opportunity for general clinical study. See Appendix (p. 888).

RESEARCH.

In the Departments of the Faculty of Medicine, provision is made for research by students of graduate standing. In the University laboratories facilities will be provided for candidates for the Degree of Ph.D. whose applications to engage in research have been accepted by the Senatus.

Clinical research, general or special, may be arranged for in the Royal Infirmary and other Institutions which are recognised for clinical work in the Medical School.

GRADUATION IN MEDICINE AND SURGERY.

Roman numerals indicate sections of Ordinance No. 12 of the University Court of the University of Edinburgh.

Degrees and Diplomas in Medicine and Surgery.

I. Four Degrees in Medicine and Surgery shall be conferred by the University of Edinburgh, namely—Bachelor of Medicine (M.B.), Bachelor of Surgery (Ch.B.), Doctor of Medicine (M.D.), and Master of Surgery (Ch.M.). The Degree of Bachelor of Surgery shall not be conferred on any person who does not at the same time obtain the Degree of Bachelor of Medicine, and the Degree of Bachelor of Medicine shall not be conferred on any person who does not at the same time obtain the Degree of Bachelor of Surgery.

[These Degrees admit to the Medical Register. They qualify for Practice throughout His Majesty's dominions, and for admission to the Naval, Military, and other Public Medical Services.]

II. Subject to Regulations to be made from time to time by the Senatus, with the approval of the University Court, the University may confer Diplomas in Special Branches of Medical and Surgical Practice on graduates in Medicine and Surgery of the University of Edinburgh, and also on other legally qualified medical practitioners who shall have pursued a prescribed course of study for the Diploma in the University.

[University Diplomas are granted in Tropical Medicine and Hygiene (D.T.M. and H.), in Psychiatry (Dipl. Psych.), and in Public Health (D.P.H.).¹

Academical Year.

III. The academical year shall commence on the first day of October. Each academical year shall extend to not less than thirty teaching weeks, divided into three terms, each of about ten weeks' duration. Two such terms shall, for the purpose of reckoning the duration of Medical study, be deemed the equivalent of one winter session, and one such term shall be deemed the equivalent of one summer session. The days on which courses of instruction shall open and close in each term shall be determined by the Senatus, with the approval of the University Court.

Preliminary Examination.

IV., V., VI., VII.—See earlier Section, pp. 107 to 116.

¹ See pp. 642 to 656 for Regulations.

Professional Education for the Degrees of Bachelor of Medicine and Bachelor of Surgery.

VIII. Candidates shall be admitted to the Degrees of Bachelor of Medicine and Bachelor of Surgery only after they have fulfilled the following conditions with reference to Medical study :—

1. The candidate must have pursued Medical study for not less than five years, by attending courses of instruction in the subjects of the curriculum during not less than fifteen terms.
2. During each of the twelve terms preceding the fifth or final year the candidate must have attended one or more of the courses of instruction in the subjects of the curriculum.
3. During the fifth or final year of his curriculum the candidate must have pursued clinical study for at least nine months, or three terms, at the Royal Infirmary of Edinburgh, or at one or more of such other Public Hospitals or Dispensaries, British or foreign, as may be recognised for the purpose by the University Court, after consultation with the Senatus.
4. The candidate must, during his curriculum, have attended a course or courses of instruction in each of the following subjects of study, extending over not less than the number of terms specified in each case, and including such class examinations as may be prescribed in connection with the several courses :—

(1) Chemistry (including Organic Chemistry)	2 terms.
(with Practical Chemistry)	1 term.
(2) Physics (with practical work)	1 term.
(3) { Botany (with practical work) } or { Biology	1 term.
{ Zoology (with practical work) } or { Practical Biology	1 term.
(4) Anatomy and Practical Anatomy ¹	5 terms.
(5) Physiology and Practical Physiology	3 terms.
(6) Pathology (including Bacteriology) and Practical Pathology	3 terms.
(7) Materia Medica, Pharmacology, and Therapeutics	2 terms.
(8) Forensic Medicine	1 term.
(9) Public Health	1 term.
(10) Midwifery and Diseases peculiar to Women and Infants	2 terms.
(11) Surgery	2 terms.
(12) Medicine	2 terms.

Provided always that—

(a) The Senatus, with the approval of the University Court, shall have power, after receiving through the Faculty of Medicine the opinion of the Board of Studies, to determine from time to time the number of meetings of which a course shall consist, the number of meetings of any course to be held in one term, the

¹ Certificates of attendance on Practical Anatomy must express, not only the number of months engaged in dissection, but the names of the parts dissected, and the degree of care with which the dissections have been made. Students are recommended not to appear for Examination in Anatomy, with a view to a Degree, until they have dissected the human body at least once.

cases in which two half-courses shall be deemed equivalent to a full course, and the cases in which the subjects of any course may be subdivided or combined for the purposes of study.

Under similar conditions the Senatus shall have power to withhold recognition from one or other of the alternative courses specified in the third group of subjects above mentioned.

(b) It shall be the duty of each of the Professors and Lecturers to submit to the Board of Studies annually before the end of the second term of the academical year a syllabus and a scheme specifying what proportion of his course or courses shall be devoted to lectures, practical work, examinations, and tutorial instruction respectively. The Board of Studies shall transmit the syllabuses and schemes to the Faculty of Medicine, who shall submit them to the Senatus, with such observations as they may think fit to make thereon. The Senatus shall thereafter transmit them, with such observations as it may think fit to make thereon, to the University Court for their approval.

(c) The Senatus, with the approval of the University Court, shall have power to determine that the course of instruction in any subject shall include practical work, to prescribe the order in which the several courses of instruction in the subjects of the curriculum shall be attended, and to limit the number of such courses that may be attended in any term.

(d) The Senatus, with the approval of the University Court, shall have power, by Regulations made from time to time, to increase the number of terms over which a course of instruction in any subject of study shall extend, or to introduce into the curriculum additional subjects of study, or to extend the duration of the curriculum beyond the period of fifteen terms. The University Court shall communicate to the General Council any such Regulations made by the Senatus relative to the introduction into the curriculum of additional subjects of study, or to the extension of the duration of the curriculum beyond the period of fifteen terms; and any representation made thereon by the General Council within two months from the date of communication shall be taken into consideration by the University Court before any such regulation is approved.

5. The candidate must have attended for at least three years, or nine terms, the Medical and Surgical Practice of the Royal Infirmary of Edinburgh, or of a General Hospital which accommodates not fewer than eighty patients, and possesses distinct staffs of Physicians and of Surgeons, and is recognised by the University Court, after consultation with the Senatus.
6. The candidate must have attended in the Royal Infirmary of Edinburgh, or in any other General Hospital defined and recognised as hereinbefore provided, a course or courses of instruction in Clinical Surgery¹ extending over not less than nine months, or

¹ Only open to students holding the Hospital Ticket. Certificates of attendance must be countersigned by the Treasurer of the Royal Infirmary. Attendance at these classes includes attendance at the Ward Cliniques as well as the Class Lectures.

three terms. These courses may be conducted by the Professor of Clinical Surgery, or by other Professors or Lecturers appointed for the purpose by the University Court, or by the Ordinary Surgeons of the Hospital, and shall consist of regular instruction at the bedside, or for such part of the time as the Senatus, with the approval of the University Court, may determine, in the Surgical Out-patient Department, together with Clinical Lectures or Demonstrations.

7. The candidate must have attended in the Royal Infirmary of Edinburgh, or in any other General Hospital defined and recognised as hereinbefore provided, a course or courses of instruction in Clinical Medicine¹ extending over not less than nine months, or three terms. These courses may be conducted by a Professor of Clinical Medicine, or by other Professors or Lecturers appointed for the purpose by the University Court, or by the Ordinary Physicians of the Hospital, and shall consist of regular instruction at the bedside, or for such part of the time as the Senatus, with the approval of the University Court, may determine, in the Medical Out-patient Department, together with Clinical Lectures or Demonstrations.

Note.—Students are required to attend a Tutorial Class of Clinical Medicine either previous to appointment as Clinical Clerks or during the first three months' tenure of Clerkships, and in either case they must obtain a *Certificate* that they have attended the Tutorial Class with regularity, and have acquired satisfactory proficiency in the work of the class.

Students shall not be permitted to act as Clinical Clerks after the termination of their first three months' clerkship unless they have obtained the above Certificate.

8. The candidate must have attended a course of instruction in Mental Diseases and in Ophthalmology of such duration, and so apportioned between lectures, demonstrations, and clinical instruction, as the Senatus, with the approval of the University Court, may from time to time prescribe; he must also have attended a course of practical instruction in Operative Surgery of such scope and duration as may from time to time be determined by the same authority.
9. The candidate must have attended a course of instruction in Practical Materia Medica, including Pharmacy, consisting of not less than twenty-five meetings, at a University or recognised Medical School, or have dispensed drugs for a period of three months in a Public Hospital or Dispensary, or in the establishment of any chemist and druggist, or pharmacist or pharmaceutical chemist of Great Britain, or any pharmaceutical chemist of Ireland, who is registered in the books of the Pharmaceutical Society of Great Britain, or of the Pharmaceutical Society of Ireland, respectively.
10. The candidate must, under such conditions as the Senatus, with the approval of the University Court, may from time to time prescribe, have attended for at least six months, or two terms,

¹ Only open to students holding the Hospital Ticket. Certificates of attendance must be countersigned by the Treasurer of the Royal Infirmary. Attendance at these classes includes attendance at the Ward Cliniques as well as the Class Lectures.

the out-patient practice of a Public Hospital or Dispensary, and have acted for at least six months, or two terms, as Clinical Clerk¹ in the Medical Department, for at least six months, or two terms, as Clinical Clerk or Dresser¹ in the Surgical Department, and for such time as the Senatus, with the approval of the University Court, may determine, as Dresser in the Surgical Out-patient Department of a recognised General Hospital.

11. The candidate must have received at a Public Hospital or Dispensary, to such an extent and under such conditions as the Senatus, with the approval of the University Court, may from time to time prescribe, instruction including practical instruction in all or any of the following subjects, or in such other special departments as may from time to time be determined, namely—post-mortem Examinations, Infectious Diseases, Gynecology, Diseases of Children, Diseases of the Ear, Nose, and Throat, Diseases of the Skin, and Tuberculosis.
12. The candidate must have conducted twenty cases of labour, under such conditions as the Senatus, with the approval of the University Court, may from time to time determine; or have attended for three months the practice of a Lying-in Hospital, or of the Maternity Department of a General Hospital or other Public Charitable Institution, and have conducted personally twelve, or such an additional number of cases of labour as the Senatus, with the approval of the University Court, may from time to time determine.

In accordance with the recommendations of the General Medical Council, adopted by the Senatus Academicus and the Royal Maternity Hospital and Associated Dispensaries, it is required that, before commencing the study of Practical Midwifery, every student shall have held the offices of Clinical Medical Clerk and Surgical Dresser, and have attended a course of lectures on Surgery and Midwifery. Further, it is required that every student who adopts the second alternative in the preceding paragraph shall, during one month, give regular daily attendance upon the indoor practice of the Royal Maternity Hospital, or other Lying-in Hospital recognised for the purpose, and have therein conducted cases of labour under the personal supervision of a Medical Officer of the Hospital, who shall, when satisfied of the student's competence, authorise him to conduct out-door cases under official Medical supervision. The attendance on out-door cases shall extend over a period of two months, under the superintendence of the Extern Obstetric Physicians of the Royal Maternity Hospital, who are attached to the Dispensaries.² Women students may take their outdoor cases under the superintendence of the Obstetric Physician of the Hospice, 219 High Street.

¹ Candidates must be members of the Class of Clinical Surgery, or of Clinical Medicine, as the case may be.

² Dispensaries referred to: The Royal, the New Town, the Livingstone, the Western, and the Provident Dispensaries.

13. The candidate must have been properly instructed in Vaccination at a Public Vaccination Station, by a Public Vaccinator, authorised by a proper Government Authority to grant Certificates of Proficiency in Vaccination.¹
14. The candidate must have been properly instructed in the administration of Anæsthetics, under such conditions as the Senatus, with the approval of the University Court, may from time to time prescribe.
15. The Senatus, with the approval of the University Court, shall have power to prescribe the form of the certificate of attendance on any course of instruction, or on the practice of any Hospital or Dispensary, to be presented by the candidate: Provided always that no candidate shall be deemed to have attended a course of instruction for the purposes of graduation who does not present a certificate bearing not only that he has regularly attended the course, but also that he has duly performed the work thereof.

IX. With respect to the Places and Institutions at which Medical study may be pursued, the following Regulations shall have effect:—

1. Not less than two years, or six terms, of Medical study must be spent in attendance at the University of Edinburgh on courses of instruction in the subjects of the Curriculum.
2. Subject to the provisions of Section VIII., Sub-section 3, the remaining three years, or nine terms, of Medical study may be spent in attendance on courses of instruction in the subjects of the Curriculum at any University of the United Kingdom, or at such Indian, Colonial, or Foreign University, or at such College incorporated with or affiliated to a University, or at such Medical Schools, or under such Teachers as may be recognised for the purpose by the University Court, after consultation with the Senatus.
3. Of the subjects of study specified in Section VIII., Sub-section 4, not less than one-half the number must be studied at the University of Edinburgh, or at some other University of the United Kingdom, or at a recognised Indian, Colonial, or Foreign University, or at a recognised College incorporated with or affiliated to a University: Provided always that, for the purpose of reckoning the number of the said subjects studied at such University or College, any of these subjects may be included which has been studied by attendance on a prescribed course of instruction therein, or on a part of such course extending over not less than two terms.
4. Subject to the provision of Sub-section 3 immediately preceding, the prescribed courses of instruction in any of the subjects of study

¹ The candidate must, when he enters for the Final Examination, produce a Certificate of instruction and examination in vaccination, of the standard required by the Local Government Board, from a Vaccine Department in an Hospital, Dispensary, or other public Institution recognised for the purpose by the Local Government Board. The recognised Vaccine Departments in Edinburgh are the Western Dispensary, Riego Street; the Livingstone Dispensary, 39 Cowgate; the Royal Public Dispensary, 21 West Richmond Street.—*Vaccinator*, Dr W. G. Aitchison Robertson; and the Edinburgh Provident Dispensary, Marshall Street.—*Vaccinator*, Dr W. D. D. Small.

specified in Section VIII., Sub-section 4, may be attended at one or more recognised Medical Schools, or under one or more recognised Teachers.

5. All candidates not matriculated students of the University, attending, for the purposes of graduation in the University, the courses of instruction of recognised Extra-Academical Teachers in Edinburgh, must, during each academic year in which such course or courses are attended, enrol their names in a book to be kept in the University for that purpose, paying a fee of the same amount as the matriculation fee paid by matriculated students of the University, and having, in respect of such payment, a right to the use of the Library of the University.
6. The fee for attendance, for the purposes of graduation, on the courses of instruction of recognised Extra-Academical Teachers in Edinburgh, shall be not less than the amount exigible for the corresponding courses in the University.
7. The University Court shall not recognise as qualifying for admission to examination in any of the subjects specified in Section VIII., Sub-section 4, the course of instruction of any Teacher who is at the time a Teacher of more than one of the said subjects, except in those cases where Professors in the University are at liberty to teach two subjects: Provided always that a Professor or other Teacher in any endowed public College or Institution, who by the terms of his appointment is required to teach more than one subject of Medical study therein, may be recognised under Sub-section 2 of this Section as a Teacher of any one of the subjects which he teaches.
8. A Teacher, attendance on whose course of instruction shall, before the date of the approval of this Ordinance by His Majesty in Council, have been recognised for the purposes of graduation in the University, shall not require to obtain a new recognition from the University Court; and attendance on the course of instruction of every such Teacher may continue to be recognised as heretofore.
9. It shall be in the power of the University Court, if they shall see cause, at any time to withdraw or suspend any recognition which they may have granted.
10. The University Court shall not grant or continue recognition to any Institutions or Teachers unless they shall be satisfied, after consultation with the Senatus, that their courses of instruction are equivalent to the courses prescribed for graduation in the University.

Professional Examination for the Degrees of Bachelor of Medicine and Bachelor of Surgery.

X. The Examination for the Degrees of Bachelor of Medicine and Bachelor of Surgery shall include the following subjects, arranged in the following divisions, namely:—*First*, Chemistry, Physics, Botany, and Zoology (or Biology); *Second*, Anatomy and Physiology; *Third*, Pathology including Bacteriology, and Materia Medica including Phar-

macology and Therapeutics; *Fourth*, Forensic Medicine, Public Health, Surgery, Clinical Surgery, Practice of Medicine, Clinical Medicine, and Midwifery and the Diseases peculiar to Women and Infants.

No candidate shall be admitted to examination in any subject until he has attended the prescribed course of instruction in that subject, and fulfilled the prescribed conditions with reference thereto.

The examination in each subject shall be conducted both orally and in writing; and in those subjects in which practical or clinical instruction is prescribed, and in which a practical or clinical examination may suitably be held, the examination shall be such as to test the practical or clinical acquirements of the candidates.

XI. The Senatus, with the approval of the University Court, shall have power to determine that a prescribed interval shall elapse between the time when a candidate passes the examinations in the subjects of one division and the time of his admission to examination in the subjects of a subsequent division, or that a candidate who has not passed the examinations in the subjects of one division shall be restricted as to his attendance on qualifying courses of instruction in any of the subjects of a subsequent division, or that under prescribed conditions a candidate may pass the examinations in the subjects of any division singly or together, or that the examinations in the subjects of any division shall be taken in a prescribed order.

The Senatus, with the approval of the University Court, shall have power, by Regulations made from time to time, to alter the number of the divisions specified in Section X., to introduce additional subjects into any division, or to determine that particular subjects or parts of subjects shall, for the purposes of examination, be subdivided or combined or transferred from one division to another: Provided always that the final division shall in all cases include practical and clinical examinations in Medicine, Surgery, and Midwifery, including Diseases peculiar to Women.

XII. The Senatus, with the approval of the University Court, shall have power, in the case of a candidate who at any other Scottish University has attended a qualifying course of instruction and passed the corresponding examination in any of the subjects comprised in the first division specified in Section X., to determine that such examination shall be accepted as equivalent in whole or in part to the corresponding examination of the University of Edinburgh: Provided always that in the judgment of the Senatus the course of instruction is equivalent to the course prescribed for graduation in the University of Edinburgh, and that the standard of the examination is satisfactory.

XIII. A candidate who has attended the prescribed course or courses of instruction in any of the subjects comprised in the first division may be admitted to examination therein, at such time and under such conditions as the Senatus, with the approval of the University Court, shall determine.

In the case of a candidate who has, at the University of Edinburgh, or at any University of the United Kingdom, or at any other University specially recognised for the purpose by the University Court, completed a course of instruction and passed an examination in Chemistry, Physics, Botany, Zoology, or in Biology (including therein Botany and Zoology), qualifying for a Degree in Science or in Arts, the Senatus shall have power to exempt him from passing the examination in the corresponding subject

or subjects comprised in the first division: Provided always that in the judgment of the Senatus the course of instruction and the standard of examination are in each case satisfactory, and provided also that he has passed or obtained exemption from the Preliminary or Entrance Examination.

Note.—A student commencing in Summer who fails to pass in one subject, either Botany or Zoology, before commencing his first Winter, shall not be permitted to appear again for examination in these subjects until the following Summer.

A student who, at the commencement of the Second Winter, has not passed in at least two subjects of the first division shall not be permitted to attend a qualifying course in Physiology or other qualifying course pertaining to a subsequent professional examination (except Practical Anatomy) during that Winter Session.

Under no circumstances may a student take out qualifying courses in the subjects of the third and final divisions until he has passed in all the subjects of the first division.

XIV. A candidate who has passed the examinations in the subjects comprised in the first division may be admitted to examination in the subjects of the second division after the end of the sixth term of Medical study, or such other term as the Senatus, with the approval of the University Court, shall determine.

Note.—A student who, at the commencement of his Third Winter, has not passed in either of the subjects of the second division shall be permitted to attend only one qualifying class, viz., Pathology or Materia Medica, during that Winter Session. Students who take Materia Medica shall also be allowed to attend Practical Materia Medica.

A student who, at the commencement of the Third Winter, has passed in only one subject of the second division shall not be permitted to attend a qualifying course in Medicine or other qualifying course pertaining to the Final Examination during that Winter Session.

XV. A candidate who has passed the examinations in the subjects comprised in the second division may be admitted to examination in the subjects of the third division after the end of the ninth term of Medical study, or such other term as the Senatus, with the approval of the University Court, shall determine.

XVI. A candidate who has passed the examinations in the subjects comprised in the third division may be admitted to examination in the subjects of the fourth or final division at such time and under such conditions as the Senatus, with the approval of the University Court, shall determine: Provided always that no candidate shall be admitted to the final examinations in Medicine, Surgery, and Midwifery prior to the fifteenth term of Medical study.

Note.—Candidates shall not be admitted to examination in the subjects of Forensic Medicine and Public Health of the final division prior to the twelfth term of medical study. Before taking out the classes and appearing for examination in these subjects, candidates must have attended qualifying classes in the subjects of Medicine, Surgery, Midwifery, and Mental Diseases.

XVII. If any candidate at any of the examinations be found unqualified in a subject or subjects, he may not again be admitted to the examination unless he has pursued such further study, for such time, and under such conditions, as the Faculty of Medicine may prescribe.¹

XVIII. If any candidate at any of the examinations be found to have passed in a subject or subjects with sufficient merit, he may be exempted from re-examination in such subject or subjects, although he may have been found unqualified in a subject or subjects included in the same examination.

XIX. Every candidate for graduation must deliver, on or before such day as the Senatus may from time to time determine,² to the Dean of the Faculty of Medicine, a declaration, in his own handwriting, that he has completed his twenty-first year, or that he will have completed it on or before the day of graduation.

XX. After the candidate has fulfilled the prescribed conditions and has satisfied the Examiners in the subjects of the fourth or final division of the Examination, the Dean of the Faculty of Medicine shall on behalf of the Faculty report the result to the Senatus, by whose authority the candidate shall be admitted, on such day as the Senatus may from time to time appoint, to the Degrees of Bachelor of Medicine and Bachelor of Surgery, on payment of the required fees.

XXI. Candidates for graduation shall produce evidence of their having conformed to the Regulations which were in force at the time they commenced their course of Medical study, except in so far as is provided in Section XXVII. hereof.

Professional Examination for Degree of Doctor of Medicine.³

XXII. 1. Subject to the conditions hereinafter specified, the Degree of Doctor of Medicine may be conferred on any candidate who has obtained the Degrees of Bachelor of Medicine and Bachelor of Surgery of the University of Edinburgh, and is of the age of twenty-four years or upwards, and has produced a certificate showing that, after having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, he has been engaged for at least one year in attending the Medical Wards of a Hospital, or in scientific work bearing directly on his

¹ Satisfactory certificates that the candidate has complied with the requirements of the Faculty must be produced when candidates re-enter for examination. The fees paid to Extra-Academical teachers in Edinburgh for re-attendances must be of the same amount as those payable for the corresponding classes in the University, and the certificates of attendance must show the amounts of the fees paid.

² On or before the date for showing certificates, etc., for the Final Examination. See pages 609 and 611. This declaration is appended to the Curriculum Schedule for the Final Examination, and must be attested and signed before the Schedule is lodged.

³ Candidates, settled for a period of years in foreign parts, who have complied with all the Regulations for the Degree of M.D. or for the Degree of Ch.M., but who cannot appear personally to receive the Degree, may, on satisfying the Senatus to that effect, by production of sufficient official testimonials, have the Degree conferred on them *in absentia*.

profession, such as is conducted in the Research Laboratories of the University, or in the Naval, Military, Colonial, or Public Health Medical Services, or for at least two years in Practice other than Practice restricted to Surgery.

2. Each candidate for the Degree of Doctor of Medicine shall be required to pass an examination in Clinical Medicine and in such special department of Medical Science or Practice professed by the candidate as the Senatus, on the recommendation of the Faculty of Medicine, may approve; and he may be admitted to the examination at such time, not sooner than one year after he has received the Degrees of Bachelor of Medicine and Bachelor of Surgery, as the Senatus may appoint for the purpose¹: Provided always that in special circumstances, and if the Thesis presented by the candidate is of exceptional merit, the Senatus may, if it sees fit, on the recommendation of the Faculty of Medicine, exempt a candidate from the whole or part of such examination.

The examination in Clinical Medicine for each candidate consists of a written Report and Commentary, with any oral questions that may be considered desirable, upon at least three Medical cases. In the selection of the cases, special regard should be given to the opportunities they afford for testing the candidate, not only in the ordinary methods of clinical investigation, but also in the more advanced methods requiring practical knowledge in the applications of the ophthalmoscope and laryngoscope, in the chemical and microscopical examination of excreta, the quantitative determination and microscopic characters of the chief constituents of blood possessing clinical importance, the recording by instruments of the condition of the circulation, the applications of electricity, etc.: Provided always that one of the three cases on which a candidate shall be examined may be the case of a patient suffering from a Gynecological or Mental Disease, or Disease of Childhood, or other special department of medicine approved by the Senatus, if the candidate on entering his name for the examination declare a wish to this effect. So far as possible, the examination in these Departments will be on a standard equal to that of the examination on the Medical cases.

3. Each candidate for the Degree of Doctor of Medicine shall submit for the approval of the Faculty of Medicine a Thesis,² on any branch of knowledge comprised in the second, third, and fourth divisions of the examinations for the Degrees of Bachelor of Medicine and Bachelor of Surgery, which he may have made a

¹ The Senatus has decided that graduates occupying positions as Resident Physicians and Surgeons in the Royal Infirmary shall not be admitted to the Examination during the period of their appointment as Residents. The Senatus also includes in this regulation Residents in the Sick Children's Hospital, City Fever Hospital, and Royal Mental Hospital, when cases in these special branches of medicine are selected as part of the examination.

² After graduation as M.D., candidates may borrow their Theses for a limited period, on obtaining permission from the Dean to do so, and on depositing £1.

subject of special study, excepting subjects which are exclusively Surgical; and the Thesis, accompanied by a declaration signed by the candidate, that the work has been done and the Thesis composed by himself, shall be lodged with the Dean of the Faculty of Medicine on or before a date to be fixed by the Senatus.¹ The Faculty may, if it sees fit, before approving the Thesis, require the candidate to present himself for oral or other examination on the subject-matter thereof.

4. A Bachelor of Medicine and Bachelor of Surgery, who produces to the Senatus satisfactory evidence of his intention of entering, within twelve months after obtaining such Degrees, on the practice of his profession in a British Possession or Colony, or in a foreign country, may, under such conditions as the Senatus may from time to time prescribe, be admitted to the examination in Clinical Medicine and in a special department of Medical Science or Practice prescribed in Sub-section 2 of this Section, at such time after he has received such Degrees as the Senatus may appoint for the purpose; but the Degree of Doctor of Medicine shall not be conferred on him unless he shall produce a certificate showing that, after having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, he has been engaged for at least one year in attending the Medical Wards of a Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Naval, Military, Colonial, or Public Health Medical Services, or for at least two years in Practice other than Practice restricted to Surgery.

Professional Examination for Degree of Master of Surgery.²

- XXIII. 1. Subject to the conditions hereinafter specified, the Degree of Master of Surgery may be conferred on any candidate who has obtained the Degrees of Bachelor of Medicine and Bachelor of Surgery of the University of Edinburgh, and is of the age of twenty-four years or upwards, and has produced a certificate showing that, after having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, he has been engaged for at least one year in attending the Surgical Wards of a Hospital, or in

¹ Candidates are required to write their Theses on faint lined paper, 11 in. by 8½ in., with margins 1½ in. at each side; or they may be typewritten. The Thesis is to be written, or typed, on one side of each leaf only; and the subject of the Thesis and name of the author should appear on the front of the outside cover, and, if the Thesis is of sufficient thickness, also along the back of the cover. It is strongly recommended, wherever the subject admits of its being done, that the Thesis should terminate with a summary embodying the conclusions arrived at by the author. The Thesis must be lodged on or before 1st October for the Winter Graduation, or 31st March for the Summer Graduation. There is no regulation as to length of Thesis. See also Regulations as to entering for examinations and lodging Theses, p. 608. For standard of Thesis see page 618, sentence beginning: "No Thesis will be approved," etc.

² See footnote 3, page 592.

scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Naval, Military, or Colonial Medical Services, or for at least two years in Practice other than Practice restricted to Medicine.

2. Each candidate for the Degree of Master of Surgery shall be required to pass an examination in the following subjects :—Surgical Anatomy and Pathology, Operations upon the dead body, and Clinical Surgery, and such special departments of Surgery professed by the candidate as the Senatus, on the recommendation of the Faculty of Medicine, may approve; and he may be admitted to the examination at such time, not sooner than one year after he has received the Degrees of Bachelor of Medicine and Bachelor of Surgery, as the Senatus may appoint for the purpose.¹

The examination in Clinical Surgery for the Degree of Master of Surgery should for each candidate consist of a written Report and Commentary, with any oral questions that may be considered desirable, on at least three Surgical cases: Provided that one of the three Surgical cases on which a candidate shall be examined may be the case of a patient suffering from an Eye, Throat, Ear, or Gynecological Disease, or other special department of Surgery approved by the Senatus, if the candidate, on entering his name for the examination, declare a wish to this effect. So far as possible, the examination in these departments shall be on a standard equal to that of the examination on the Surgical cases. The candidates shall also be examined in Surgical Anatomy and Operations upon the dead body.

3. Each candidate for the Degree of Master of Surgery shall submit for the approval of the Faculty of Medicine a Thesis² on any branch of knowledge comprised in the second, third, or fourth divisions of the examination for the Degrees of Bachelor of Medicine and Bachelor of Surgery, which he may have made a subject of special study, excepting subjects that are exclusively medical; and the Thesis, accompanied by a declaration signed by the candidate that the work has been done and the Thesis composed by himself, shall be lodged with the Dean of the Faculty of Medicine on or before a date to be fixed by the Senatus. The Faculty may, if it sees fit, before approving the Thesis, require the candidate to present himself for oral or other examination on the subject-matter thereof.
4. A Bachelor of Medicine and Bachelor of Surgery who produces to the Senatus satisfactory evidence of his intention of entering, within twelve months after obtaining such Degrees, on the practice of his profession in a British Possession or Colony, or in a foreign country, may, under such conditions as the Senatus may from time to time prescribe, be admitted to the examination in the subjects specified in Sub-section 2 of this Section, at such time after he has received such Degrees as the Senatus may appoint for the purpose; but the Degree of Master of Surgery shall not be conferred

¹ See footnote 1, page 593.

² See footnote 2, page 593, and 1, page 594

on him unless he shall produce a certificate showing that, after having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, he has been engaged for at least one year in attending the Surgical Wards of a Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Naval, Military, or Colonial Medical Services, or for at least two years in Practice other than Practice restricted to Medicine.

Summary of Requirements under the Foregoing Ordinance.

During the curriculum a student must attend a course or courses of instruction in each of the following subjects :—

1. Chemistry (including Organic Chemistry)	100 meetings
2. Practical Chemistry	40 meetings (2 hours)
3. Physics (with practical work)	50 meetings
4. Botany	50 "
5. Practical Botany	25 meetings (2 hours)
6. Zoology	50 meetings
7. Practical Zoology	25 meetings (2 hours)
8. Anatomy	100 meetings
9. Practical Anatomy	15 months
10. Physiology	100 meetings
11. Practical Physiology—Histology	40 meetings (2 hours)
Chemical Physiology	20 "
Experimental Physiology	20 " "
12. Pathology (including Bacteriology)	100 meetings
13. Pathology (Practical)	30 meetings (2 hours)
14. Pathology (Morbid Anatomy)	3 months
15. Materia Medica, Pharmacology, and Therapeutics	100 meetings
16. Practical Materia Medica	25 "
<i>or</i>	
Dispensing with Registered Chemist and Druggist.	3 months
17. Forensic Medicine	50 meetings
18. Public Health	40 "
19. Midwifery and Diseases peculiar to Women and Infants	100 "
20. Surgery	100 "
21. Medicine	100 "
22. Hospital Practice (Medical and Surgical) (3 years)	27 months
23. Clinical Surgery	9 "
24. Clinical Medicine	9 "

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| 25. Mental Diseases | 6 lectures or demonstrations and 10 clinics |
| 26. Ophthalmology | 12 lectures and 12 clinics |
| 27. Operative Surgery | 30 meetings |
| 28. Dispensary Practice | 6 months |
| 29. Medical Clerk | 6 " |
| 30. Surgical Clerk and Dresser | 6 " |
| 31. Surgical Out-Patient Dresser | |
| 32. Infectious Diseases | 12 clinics |
| 33. Gynecology (Clinical) | 5 weeks |
| 34. Diseases of Children (Clinical) | 3 months |
| 35. Diseases of Larynx, Ear, and Nose | { 6 lectures or demonstra-
tions and 12 clinics |
| 36. Diseases of the Skin (Clinical) | 20 meetings |
| 37. Practical Midwifery— | |
| (a) Twenty cases of labour, personally conducted, or | |
| (b) Three months' Maternity Hospital practice, and | |
| 12 cases personally conducted | |
| 38. Tuberculosis | 30 meetings |
| 39. Venereal Diseases | |
| 40. Vaccination | 6 meetings |
| 41. Practical Anæsthetics | 6 lectures and 6 personal administrations |

SPONSIO ACADEMICA FOR GRADUATES IN MEDICINE.

Ego Doctoratus in Arte Medica titulo jam donandus, sancte coram Deo cordium scrutatore, spondeo, me in omni grati animi officio erga Universitatem Academicam Edinburgensem ad extremum vitæ halitum perseveraturum.

Tum porro Artem Medicam caute, caste, probeque exercitaturum, et quoad potero, omnia ad ægrotorum corporum salutem conducentia cum fide procuraturum. Quæ, denique, inter medendum visa vel audita sileri conveniat, non sine gravi causa vulgaturum.

Ita præsens spondenti adsit Numen.

[TRANSLATION.]

Whereas the distinction of a Degree in Medicine is now to be conferred upon me, I solemnly promise before God, the

searcher of hearts, that I will to my latest breath abide steadfast in all due loyalty to the University of Edinburgh :

Further, that I will practise the Art of Medicine with care, with purity of conduct and with uprightness, and, as far as in me lies, will faithfully attend to everything conducive to the welfare of the sick :

Lastly, that, whatever things seen or heard in the course of medical practice ought not to be spoken of, I will not, save for weighty reason, divulge.

This I promise, as I hope for the gracious blessing of Heaven.

THE CURRICULUM FOR DEGREES OF M.B. AND Ch.B.

Students from abroad are requested to bring with them, and present to the Dean, a letter of recommendation from a responsible official or head of the College at which they have been educated.

It is very advisable that all students from abroad should have completed the necessary Preliminary Examination requirements before coming to Edinburgh. See pp. 107-116.

Attention is directed to the regulation that all class fees must be paid at the commencement of each session. See p. 550.

Students may commence the study of Medicine either in April (Summer Session) or October (Winter Session), but it is strongly recommended by the Faculty of Medicine that study should begin in the Summer Session.

The following order of attendance on classes is laid down for students commencing in Summer and Winter respectively; and this must be followed, except in special cases authorised by the Faculty, on application to the Dean.

The earliest dates at which students may appear for the Professional Examinations are indicated.

Examinations are held in the subjects of the First, Second, and Third Professional Examinations in March, July, and October and in the Final Examination in June and December.

FOR STUDENTS BEGINNING IN SUMMER.

*First Summer Term—*Hour of Meeting
of Class.

Botany		8-9
Zoology (men only)		12-1
Physics (women only)		1-2
Practical Botany	} On days to be arranged {	9-11
Practical Zoology (men only)		10-12
Practical Anatomy (thrice weekly)		Afternoon

*(Examination in Botany and Zoology.)***First Year.***Winter (1st Term)—*

Practical Chemistry (twice weekly)	9-11
Anatomy	11-12
Chemistry	12-1
Zoology ¹ (women only)	1.30-3
Physics ¹ (men only)	1-2
Practical Anatomy	Afternoon

Winter (2nd Term)—

Practical Chemistry (twice weekly)	9-11
Anatomy	11-12
Chemistry	12-1
Zoology ¹ (women only)	1.30-3
Physics ¹ (men only)	1-2
Practical Anatomy	Afternoon

*(Examination in Chemistry and Physics.)**Summer Term—*

Histology	8-10 or 11-1
Practical Anatomy	

Second Year.*Winter (1st Term)—*

Physiology	10-11
Practical Physiology (twice weekly)	11-1
Practical Anatomy and Demonstrations	

Winter (2nd Term)—

Physiology	10-11
Practical Physiology (twice weekly)	11-1
Practical Anatomy and Demonstrations	

*(Examination in Anatomy and Physiology.)**Summer Term—*

Pathology (Practical) (thrice weekly)	8-10
Pathology (Morbid Anatomy)	10-11
Surgical Out-patients	11-12
Clinical Surgery	12-2

¹ These classes meet thrice weekly during the Winter Session.² A third division, if necessary, 2-4 p.m.

Third Year.

Winter (1st Term)—

	Hour of Meeting of Class.
Medicine.	
Pathology (Morbid Anatomy)	9-10
Clinical Medicine	10-11
Materia Medica	11-1.30
Pathology (including elementary Bacteriology)	2-3
Practical Materia Medica	3-4
	4-5

Winter (2nd Term)—

Medicine.	
Pathology (Morbid Anatomy)	9-10
Clinical Medicine	10-11
Materia Medica	11-1.30
Pathology (including elementary Bacteriology)	2-3
Practical Materia Medica	3-4
	4-5

(Examination in Pathology and Materia Medica.)

Summer Term—

Out-patients (Medical)	
Vaccination	11-1
Dispensary Practice	3-4
	Afternoon

Fourth Year.

Winter (1st Term)—

Surgery		9-10
Midwifery (including Gynecology) (men only)		10-11
() (women only)		2-3
* Sec. A. Diseases of Skin	11-12. Clinical Surgery	12-2
* " B. Diseases of Eye		
* " C. Diseases of Ear, etc.		
Dispensary Practice	}	Afternoon
Infectious Diseases (once weekly)		
Anæsthetics. ¹		
Optional Classes. ²		

* These Classes are held thrice weekly, and on remaining days Students must attend Clinical Surgery at 11 o'clock.

¹ A Course of Instruction is given in each term.

² Optional Courses are held in the subjects of *History of Medicine* (during the First Term of the Winter Session, twice weekly, 4 to 5 p.m., and may be attended by Students who have passed the 1st Professional Examination); *Physical Methods in the Treatment of Disease* (during the First Term of the Winter Session, 4 to 5 p.m., twice weekly, and open to Students who have passed the 3rd Professional Examination); *Neurology* (daily at 4 p.m. during the Second Term of the Winter Session and open to Students who have passed the 3rd Professional Examination); *Applied Anatomy* (thrice weekly, from 5 to 6 p.m. during First Term of Winter Session, and Students are recommended to take the class in the Fifth Winter.)

FOR STUDENTS BEGINNING IN WINTER.

First Year.

Winter (1st Term)—

	Hour of Meeting of Class.
Practical Chemistry (twice weekly)	9-11
Anatomy.	11-12
Chemistry	12-1
Zoology ¹ (women only).	1.30-3
Physics ¹ (men only)	1-2
Practical Anatomy (thrice weekly)	Afternoon

Winter (2nd Term)—

Practical Chemistry (twice weekly)	9-11
Anatomy.	11-12
Chemistry	12-1
Zoology ¹ (women only).	1.30-3
Physics ¹ (men only)	1-2
Practical Anatomy (thrice weekly)	Afternoon

(Examination in Chemistry and Physics.)

Summer Term—

Botany	.	.	.	.	.	.	8-9
Zoology (men only)	.	.	.	.	.	.	12-1
Physics (women only)	.	.	.	.	.	.	1-2
Practical Botany	}	On days to be arranged	}				9-11
Practical Zoology (men only)							10-12
Practical Anatomy							Afternoon

(Examination in Botany and Zoology.)

Second Year.

Winter (1st Term)—

Physiology	10-11
Practical Physiology (twice weekly)	11-1
Practical Anatomy.	

Winter (2nd Term)—

Physiology	10-11
Practical Physiology	11-1
Practical Anatomy and Demonstrations.	

Summer Term—

Histology	8-10 or 11-1
Practical Anatomy and Demonstrations.	

(Examination in Anatomy and Physiology.)

¹ These classes meet thrice weekly during the Winter Session.
² A third division, if necessary, 2-4 p.m.

Third Year.		Hour of Meeting of Class.
<i>Winter (1st Term)—</i>		
Medicine.	.	9-10
Pathology (Morbid Anatomy)	.	10-11
Clinical Medicine	.	11-1.30
Materia Medica	.	2-3
Pathology (including elementary Bacteriology).	.	3-4
Practical Materia Medica	.	4-5
<i>Winter (2nd Term)—</i>		
Medicine.	.	9-10
Pathology (Morbid Anatomy)	.	10-11
Clinical Medicine	.	11-1.30
Materia Medica	.	2-3
Pathology (including elementary Bacteriology).	.	3-4
Practical Materia Medica	.	4-5
<i>Summer Term—</i>		
Pathology (Practical) (thrice weekly)	.	8-10
Pathology (Morbid Anatomy)	.	10-11
Clinical Surgery	.	12-2
Vaccination	.	3-4
(Examination in Pathology and Materia Medica.)		

Fourth Year.		
<i>Winter (1st Term)—</i>		
Surgery	.	9-10
Midwifery (including Gynecology) (men only).	.	10-11
(" ") (women only)	.	2-3
*Sec. A. Diseases of Skin	} 11-12. Clinical Surgery	12-2
* " B. Diseases of Eye		
* " C. Diseases of Ear, etc.		
Dispensary Practice	} .	Afternoon
Infectious Diseases (once weekly)		
Anæsthetics. ¹		
Optional Classes. ²		
<i>Winter (2nd Term)—</i>		
Surgery	.	9-10
Midwifery (including Gynecology) (men only).	.	10-11
(" ") (women only)	.	2-3
*Sec. A. Diseases of Ear, etc.	} 11-12. Clinical Surgery	12-2
* " B. Diseases of Skin		
* " C. Diseases of Eye		
Mental Diseases (twice weekly).	.	3-4
Infectious Diseases (if not previously attended)	} .	Afternoon
Dispensary Practice		
Practical Midwifery		

* See footnote *, p. 600.

¹ A Course of Instruction is given in each term.² See footnote 2, p. 600.

*Summer Term—*Hour of Meeting
of Class.

Operative Surgery	.	.	.	.	.	8-9.45
Public Health	.	.	.	.	.	10-11
Sec. A. Diseases of Children	.	.	.	.	.	11-1
" B. Diseases of Ear, etc.	} 11-12.	Clinical Medicine	12-1.30			
" C. Diseases of Skin						
Forensic Medicine	.	.	.	.	.	2-3
Infectious Diseases (if not previously attended)	.	.	.	.	.	Afternoon

*(Examination in Forensic Medicine and Public Health.)***Fifth Year.***Winter (1st Term)—*

Tuberculosis	.	.	.	.	.	9-10
Clinical Gynecology	.	.	.	.	.	10-11
Sec. B. Diseases of Children	.	.	.	.	.	11-1
" A. Diseases of Eye	} 11-12.	Clinical Medicine	12-1.30			
" C. Clinical Medicine or Clinical Surgery.						
Dispensary Practice}	.	.	.	.	.	Afternoon
Practical Midwifery }	.	.	.	.	.
Optional Classes. ¹	.	.	.	.	.

Winter (2nd Term)—

Clinical Gynecology	.	.	.	.	.	10-11
Sec. C. Diseases of Children	.	.	.	.	.	11-1
Secs. A. and B. Clinical Medicine or Clinical Surgery	.	.	.	.	.	12
Dispensary Practice }	} if not previously attended					Afternoon
Practical Midwifery }						

Summer Term—

Tuberculosis	.	.	.	.	.	9-10
Clinical Work in Hospital.	.	.	.	.	.

*(Examination in Midwifery, including Gynecology, Surgery, and Medicine, and corresponding Clinical Examinations.)***MERIT IN CLASS EXAMINATIONS.**

With a view to promoting the Educational interests of the students during the time they are occupied with the respective subjects in the Classes, the Senatus recommend :—

1. That there should be at least two Special CLAS-Examinations in the Classes in the Faculty of Medicine during each Session, conducted by means of questions and written answers, without aid from books or notes.
2. That in the event of a student gaining 75 per cent. or more of the available marks in any department, he shall obtain a First Class Certificate of Merit.

¹ See footnote 2, p. 600.

3. That in the event of a student gaining 50 per cent. or more, but less than 75 per cent. of the available marks in any department, he shall receive a Second Class Certificate of Merit.

University Bronze Medals are also given for Competitive Class Examinations.

HONOURS AT PROFESSIONAL EXAMINATIONS.

Candidates who have attained a sufficiently high standard at any of the Professional Examinations will be announced as having passed that Examination "with distinction."

Candidates who have displayed special merit in the Professional Examinations will be announced, at the time of Graduation, as having obtained FIRST or SECOND CLASS HONOURS, according to the merit that has been displayed.

CERTIFICATES OF ATTENDANCE ON CLASSES IN THE FACULTY OF MEDICINE.

The Senatus Academicus have resolved that the Certificates of Attendance to be granted to students in the Faculty of Medicine shall be regulated in the following manner :—

Each Professor shall ascertain the presence of his pupils at least twenty-six times in a Course of six months' duration, and thirteen times in a Course of three months' duration.

Those who have been absent on one-third or more of the occasions on which attendance has been ascertained, or have not duly performed the work of the Class, including any Examinations that may be held, shall not be entitled to any Certificate.

The following is the form of Certificate which must be adopted in all cases :—

"I certify that M _____ attended my Course of Instruction
on _____ during the Session _____ ; that _____ was present on
of the _____ occasions on which attendance was
ascertained ; and that _____ duly performed the work of the Class."

Exceptions will be admitted in the case of those who may be absent from sickness or other unavoidable causes, the particulars of which must be stated to the Professor in writing, accompanied with certificates. All excuses for non-attendance must be given in immediately upon the student returning to his class. If any student shall have been absent for six weeks or upwards in a Course of six months, or for three weeks in a Course of three months (whatever the cause of absence may be), his case must be transmitted to the Dean of the Faculty, for the decision of the Faculty.

Whenever the student's cause for absence shall be admitted by the Professor or by the Faculty, the Certificate shall bear that he "attended," and shall state the amount of the irregularity and the nature of the excuse.

FIRST PROFESSIONAL EXAMINATION.

The Faculty of Medicine have resolved that the written and oral examinations in Chemistry, Elementary Botany, Elementary Zoology, and Physics shall be restricted in the following manner :—

1. Chemistry.—Elements ; compounds ; mixtures. Laws and conditions of chemical combination. Molecular weights of gaseous, volatile, and dissolved substances. Osmotic pressure. The atomic theory. Atoms ; molecules. Atomic weights. Electrolysis, Quantivalence. The Periodic Law.

The non-metallic elements, and their chief compounds ; especially the compounds of oxygen, of hydrogen, and of chlorine with the other non-metals. The more important inorganic acids and bases. The atmosphere. Combustion. Oxidation and reduction.

The following metallic elements, and their chief compounds : Mercury, silver, lead, antimony, tin, copper, bismuth, zinc, iron, aluminium, chromium, manganese, barium, calcium, magnesium, potassium, sodium, lithium.

The chief processes of chemical industry.

Classification of Carbon Compounds. Hydrocarbons and their halogen derivatives. Alcohols and Ethers. Substituted ammonias and ammonium salts. Organic Acids and their derivatives. Aldehydes, Ketones. Esters, Fats and Oils, Saponification. Amides and Amino-Acids. Carbohydrates. Distillation of Wood and Coal. Benzene and its derivatives. Other homocyclic and heterocyclic rings. Cyanides, Cyanates, Thiocyanates. Urea. Purine Compounds. Proteins. Glucosides. Alkaloids. Synthetic Drugs. Dyes and Stains.

Practical Examination.—(a) Simple inorganic preparations on a small scale, especially such as involve the formation and decomposition of the commoner salts. (b) The qualitative examination of single substances. The substances given for examination may be :—Salts, acids and bases ; oxides ; elements ; typical organic substances, *e.g.*, Starch, Cane-sugar, Grape-sugar, Alcohol, Glycerol, Fatty Acids, Fats, Soaps, Chloroform, Urea, Uric Acid, Phenol, Salicylic Acid, Chloral. The salts given are confined to those derived from the metallic and salt radicals named in the following lists :—

Silver, Mercurous, Mercuric, Cupric, Lead, Stannous, Bismuth, Antimony, Arsenious, Zinc, Ferrous, Ferric, Chromic, Aluminium, Calcium, Barium, Magnesium, Ammonium, Sodium, Potassium, Lithium.

Carbonate, Sulphite, Thiosulphate, Sulphide, Hypochlorite (Bleaching solution), Nitrite, Chloride, Bromide, Iodide, Cyanide, Sulphate, Chromate, Manganate, Permanganate, Orthophosphate, Arsenite, Arsenate, Borate, Oxalate, Nitrate, Chlorate, Acetate, Tartrate, Citrate, Salicylate.

(c) Simple Volumetric Analysis.

2. Elementary Botany.—The characteristic features of the following groups and classes of the vegetable kingdom :—

Thallophyta ; Bryophyta ; Pteridophyta ; Spermatophyta.

The fundamental facts and principles of Organography and Physiology.

3. Elementary Zoology.—An elementary knowledge of the Protozoa, Coelenterata, Annelida, Arthropoda, and Mollusca.

A general knowledge of the structure and habits of the Pisces, Amphibia, Reptilia, and Aves, and of the structure, habits, and distribution of the Mammalia.

A more detailed knowledge of :—

(1) The life-history of Protozoa associated with disease in man, including—Entamoeba, Trypanosomes, Malarial parasites.

(2) Blood-sucking Arthropoda—Mosquitoes, Tse-tse flies, Ticks, their mouth-parts and other specialised organs.

(3) Flat-worms and Round-worms parasitic in man.

The fundamental facts as to (1) the structure, etc., of the cell; (2) Sexual and Asexual Reproduction; (3) Heredity and Variation; (4) Maturation, Fertilisation, and Segmentation of the Ovum; (5) the Development of Amphioxus and Scyllium and the foetal appendages of Birds and Mammals; and (6) Parasitism and Degeneration.

4. Physics.—(a) Properties of Matter—including Statics and Kinetics of Solid, Liquid, and Gaseous Bodies, Kinetic and Potential Energy, Diffusion, Surface Tension, Capillarity.

(b) Sound and Wave-propagation in general, Intensity, Pitch and Quality of Musical Sounds, Harmonics, Concords, Interference.

(c) Heat, its Nature, Effects, Measurement, Transference and Transformations. Measurement of Temperature and of Humidity; Energy Relations, Horse Power, Efficiency.

(d) Light, Laws of Reflection and Refraction, Production of Images in Mirrors, Lenses, Microscopes; Achromatic Lenses; Conditions of Distinct Vision; Interference, Dispersion, Diffraction, Double Refraction, Polarisation, Fluorescence, Phosphorescence, Radiation, and Spectrum Analysis.

(e) Electricity and Magnetism; Capacity, Potential, Electromotive Force, Current, Resistance, Magnetic Field; Thermo-Electricity; Electrolysis; Induction of Currents; Batteries, Galvanometers, Voltmeters, Induction Coils, Dynamos; Radio-activity.

FEES FOR EXAMINATIONS.

M.B., Ch.B.

The full fee for each Professional Examination must be paid on first entry for any part of the examination.

First Professional Examination	£6	6	0
Second Professional Examination (Anatomy and Physiology)	5	5	0
Third Professional Examination (Pathology and Materia Medica)	4	4	0
Final Examination	7	7	0
	<u>£23</u>	<u>2</u>	<u>0</u>

Any candidate who fails to pass in one or more of the subjects must pay £1, 1s. for re-examination in each subject; or, in the case of the Final Examination, £6, 6s. for re-examination in all subjects.

* * Candidates who, under the proviso in Sections XII. and XIII. of the Regulations, are exempted from the first division of the examination, are required, after passing the final division of the examination, to pay a fee of £6, 6s. before they can be admitted to the Degrees of M.B. and Ch.B.

M.D. and Ch.M.

M.D.	.	.	.	.	.	.	.	£15 15 0
Ch.M.	.	.	.	.	.	.	.	15 15 0

Any candidate who fails to pass the examinations for the Degree of M.D. or for the Degree of Ch.M., is required to pay a fee of £5, 5s. for each re-appearance.

Every candidate for examination or graduation must be a matriculated student of the year in which he appears for examination or graduation. He is also required, before graduation, to pay the fee of £1 for Registration as a Member of the General Council (if not already a Member), *not later than 4 o'clock on the last day but two before the Graduation.*

TIME-TABLES OF EXAMINATIONS.

Candidates are required to enter for each periodical Professional Examination at which they desire to appear, and to state the subject or subjects in which they desire to be examined.

The dates of the examinations for 1919-1920 have been fixed as follows, and the examinations will take place in the Examination Rooms, Old Buildings.

PRELIMINARY EXAMINATION.

See Time-Table and Dates of Entering, etc., pages 115 and 116.

PROFESSIONAL EXAMINATIONS.

Candidates are required to enter their names and to pay the fees for the examinations, at the Matriculation Office, University (Old) Buildings, at the stated periods; and afterwards, at the stated periods, to exhibit their Certificates at the Office of the Faculty of Medicine. Certificates only will be received as evidence of attendance upon Courses of Instruction.

If names are not entered, Fees paid, and Certificates shown, or Theses lodged, on or before the stated dates (or a Pass obtained in the case of the fee having been previously paid), a *Late-entry Fee* of ten shillings must be paid before the candidate can be admitted to any one of the Four Professional Examinations for M.B., or to the Professional Examinations for M.D. or Ch.M. Candidates may enter on payment of this fee till 4 P.M. on the third day previous to the commencement of the respective examinations. Thereafter a late-entry fee of twenty shillings will be charged till twelve noon of the day preceding the commencement of any one of the Professional Examinations. No later entry will be received.

Theses for the Degrees of M.D. and Ch.M. can only be lodged later than the appointed dates by getting special permission from the Dean to do so, and the utmost extension that will be given is ten days. Theses so lodged are not eligible for competition for medals or other awards. The late-entry fee of ten shillings will also be payable.

If, after payment of the fee, a candidate withdraws his name, or fails to present himself at the examination, he will not receive back the fee, but will be allowed to enter on one subsequent occasion for examination in the same subject, without the payment of any additional fee.

Where a candidate appears for part of an examination, but fails to appear for another part for which he had entered, without giving notice of his intention not to appear, he will be held to have failed in the part for which he entered but did not appear.

PROFESSIONAL EXAMINATIONS FOR M.B., Ch.B.

SEPTEMBER-DECEMBER.

Dates of Entry.

1919.		
Sept. 17.	Wed.	First Professional Examination.
" 18.	Th.	Second " "
" 19.	Fri.	Third " "
		(Office hours, 10 to 1.)
Nov. 6.	Th.	} Final Professional Examination.
" 7.	Fri.	

Dates for Showing Certificates.

Sept. 22.	Mon.	First Professional Examination, from 10 to 12.
" 23.	Tu.	Second and Third Professional Examinations, from 10 to 12.
Nov. 17.	Mon.	Final Professional Examination, from 10 to 1.

Days and Hours of Examinations.

Oct. 1.	Wed.	Botany, 9; Pathology, 9; Zoology, 12; Materia Medica, 12.
" 2.	Th.	Chemistry, 10; Anatomy, 10; Physics, 2; Physiology, 2.
Nov. 18.	Tu.	Surgery, 10; Medicine, 2.
" 19.	Wed.	Midwifery, 10.
" 28.	Fri.	Final Clinical Medicine commences at 11.45.
Dec. 1.	Mon.	Final Clinical Surgery commences at 10.
" 11.	Th.	Forensic Medicine, 10; Public Health, 2.
" 19.	Fri.	GRADUATION CEREMONIAL, at 10 A.M.

FACULTY OF MEDICINE

MARCH.

1920.

Dates of Entry.

Mar.	1.	Mon.	} First Professional Examination.
"	2.	Tu.	
"	3.	Wed.	} Second Professional Examination.
"	4.	Th.	
"	5.	Fri.	} Third Professional Examination.
"	6.	Sat.	

Dates for Showing Certificates.

"	8.	Mon.	First Professional, from 10 to 1.
"	9.	Tu.	Second Professional, from 10 to 1.
"	10.	Wed.	Third Professional from 10 to 1.

Days and Hours of Examinations.

"	13.	Sat.	Chemistry, 10; Anatomy, 10; Physics, 2; Physiology, 2.
"	15.	Mon.	Botany, 10; Pathology, 10; Zoology, 2; Materia Medica, 2.

MAY-JUNE-JULY.

Dates of Entry.

May	10.	Mon.	} Final Professional Examination.
"	11.	Tu.	
June	10.	Th.	} Third Professional.
"	11.	Fri.	
"	14.	Mon.	} Final Professional. (Forensic Medicine and Public Health only.)
"	15.	Tu.	
"	16.	Wed.	} First Professional.
"	17.	Th.	
"	18.	Fri.	} Second Professional.
"	19.	Sat.	

Dates for Showing Certificates.

May	19.	Wed.	} Final Professional Examination, from 10 to 1.
"	20.	Th.	
June	26.	Sat.	Third Professional, from 10 to 1.
"	28.	Mon.	First Professional, from 10 to 1.
"	29.	Tu.	Second Professional, from 10 to 1.
"	30.	Wed.	Final Professional (For. Med. and Pub. Health), from 10 to 1.

1920. Days and Hours of Examinations.

May	21.	Fri.	Medicine, 10; Surgery, 2.
"	22.	Sat.	Midwifery, 10.
June	11.	Fri.	<i>Final</i> Clinical Medicine commences at 11.45.
"	14.	Mon.	<i>Final</i> Clinical Surgery commences at 10.
July	1.	Th.	Chemistry, 9; Forensic Medicine, 9; Physics, 12; Public Health, 12.
"	2.	Fri.	Botany, 9; Anatomy, 12; Zoology, 3.
"	3.	Sat.	Pathology, 9; Physiology, 12; Materia Medica, 3.
July	8.	Th.	{ GRADUATION CEREMONIAL, at 10 A.M. COMMEMORATION SERVICE, at 12 NOON.

DEGREE OF DOCTOR OF MEDICINE.

1919. Theses.

Oct.	1.	Wed.	Theses to be lodged, Certificates shown, and Fees paid <i>on or before</i> this date.
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1920.

Mar.	31.	Wed.	Theses to be lodged, Certificates shown, and Fees paid <i>on or before</i> this date.
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1919. Clinical Examinations (M.D.).

Nov.	7.	Fri.	Names to be entered and Fees paid <i>on or before</i> this date.
"	21.	Fri.	{ Clinical Medicine Examination at 9.45 A.M. each day.
"	22.	Sat.	
Dec.	19.	Fri.	GRADUATION CEREMONIAL at 10 A.M. ¹

1920.

May	14.	Fri.	Names to be entered and Fees paid by candidates for Clinical Examination only, <i>on or before</i> this date.
June	4.	Fri.	{ Clinical Medicine Examination begins at 9.45 A.M. each day for <i>first</i> section of candidates.
"	5.	Sat.	
"	7.	Mon.	{ Clinical Medicine Examination begins at 9.45 A.M. each day for <i>second</i> section of candidates.
"	8.	Tu.	
July	8.	Th.	GRADUATION CEREMONIAL at 10 A.M. ¹

DEGREE OF MASTER OF SURGERY.

1919. Theses.

Oct.	1.	Wed.	Theses to be lodged, Certificates shown, and Fees paid <i>on or before</i> this date.
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1920.

Mar.	31.	Wed.	Theses to be lodged, Certificates shown, and Fees paid <i>on or before</i> this date.
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¹ Graduates who hold the King's Commission are expected to appear for graduation in uniform, and with whatever medals and decorations they may possess.

1919.

Examinations.

- Nov. 1. Sat. Names to be entered and Fees paid by candidates for examination only, *on or before* this date.
 " 13. Th. Clinical Surgery: Written Cases 10 A.M.; Oral 4 P.M.
 " 14. Fri. Surgical Anatomy, Operations, etc., 10.30 A.M.
 Dec. 19. Fri. GRADUATION CEREMONIAL at 10 A.M.¹

1920.

- May 17. Mon. Names to be entered and Fees paid by candidates for examination only, *on or before* this date.
 June 7. Mon. Clinical Surgery: Written Cases 10 A.M.; Oral 4 P.M.
 " 8. Tu. Surgical Anatomy: Operations, etc., 10.30 A.M.
 July 8. Th. GRADUATION CEREMONIAL at 10 A.M.¹

Information relative to Matriculation and the Curriculum of Study, and the Subjects of Examinations for Degrees in Medicine and Surgery, and for Fellowships, Scholarships, Bursaries, Prizes, etc., etc., may be obtained on application to the Dean of the Faculty of Medicine, University New Buildings.

The fees for Matriculation, for Examinations for Degrees, and for Registration as Member of the General Council of the University, are payable at the *Matriculation Office, University (Old) Buildings*. Candidates who cannot pay the fees personally, may transmit them to JAS. DOWIE, University, Edinburgh, by *Money Orders* or *Postal Orders*, or by *Bank Draft*, crossed "*Union Bank of Scotland (Hunter Square Branch), Edinburgh.*"

¹ Graduands who hold the King's Commission are expected to appear for graduation in uniform, and with whatever medals and decorations they may possess.

EXTRA - ACADEMICAL TEACHERS WHOSE COURSES OF INSTRUCTION ARE RECOGNISED AS QUALIFYING FOR GRADUATION IN MEDICINE IN THIS UNIVERSITY.

REGULATIONS OF THE UNIVERSITY COURT RELATIVE TO CERTIFICATES OF ATTENDANCE.

The Certificate of Attendance granted to Students by recognised Extra-Academical Teachers should, in all cases, state the number of Lectures, or of Meetings for Practical Instruction, in the Course; the number of occasions on which attendance was ascertained; and the number of those occasions on which the Student was present, and in what further respects he duly performed the work of the class. The Certificate should also state the general scope of the Course; and, in particular, in the case of *Chemistry*, that the Course included Organic as well as Inorganic Chemistry; in the case of *Midwifery*, that it included the Diseases of Women and Children; and, in the case of *Practical Materia Medica*, that it included Pharmacognosy, Pharmacy, Dispensing, and the writing of Prescriptions.

Aberystwyth.

Date of Recognition.

Alexander Findlay . . . Chemistry and Practical Chemistry	18 Dec. 1911.
R. D. Laurie Zoology	18 Nov. 1918.
D. Morgan Lewis Physics	16 July 1894.
Dr Lloyd Williams Botany	18 Nov. 1918.

Bangor.

K. J. P. Orton, M.A., Ph.D. . . Chemistry (Systematic and Practical)	15 Apr. 1912.
Reginald W. Phillips, M.A. . . Botany	30 May 1885.
Philip J. White, M.B. Natural History	9 Dec. 1889.

Bradford.

John Cryer Botany	18 Jan. 1915.
John A. Fisher Zoology	15 Feb. 1915.
B. North Chemistry ¹	} 20 June 1913.
J. A. Tomkins Physics	

Brighton.

M. C. Clutterbuck, F.C.S. . . Chemistry	17 Feb. 1908.
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Cardiff.

John Berry Haycraft, M.D. . . Physiology	16 July 1894.
David Hepburn, M.D. Anatomy and Practical Anatomy	19 Oct. 1903.

¹ Inorganic Courses of the College, along with Part I. of Organic Courses, or equivalent Courses. This Recognition does not include the College Medical Courses in Chemistry.

Cardiff—continued.

		Date of Recognition.
W. N. Parker, Ph.D.	Natural History	28 July 1886.
Arthur L. Selby, M.A.	Physics	21 Oct. 1895.
<i>(Lecture Course may be divided between two consecutive Sessions.)</i>		
A. H. Trow, B.Sc.	Botany	16 July 1894.

Cork.

Marcus Hartog, M.D., D.Sc.	Zoology	18 Mar. 1895.
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Edinburgh.

James Burnet, M.D.	Pract. Materia Medica	12 Nov. 1906.
George L. Chiene, M.B., C.M.	Surgery	15 July 1907.
Wm. Craig, M.D.	Materia Medica and Practical Materia Med.	14 July 1879.
T. W. Drinkwater, Ph.D.	Chemistry	8 Mar. 1880.
William Duncan	Practical Chemistry	14 July 1879.
R. A. Fleming, M.A., M.D.	Pract. Materia Medica	12 Apr. 1886.
A. Dingwall Fordyce.	Practice of Medicine	15 July 1907.
E. S. Fry, M.B.	Medicine	14 Jan. 1918.
G. H. Gemmell	Practical Materia Medica	21 Oct. 1895.
Alexander Goodall, M.D.	Practical Chemistry	13 May 1901.
J. T. Grant, M.D.	Physiology	12 Nov. 1906.
John Guy, M.D.	Practical Physiology	17 Dec. 1906.
D. Berry Hart, M.D.	Practical Bacteriology	16 July 1906.
John W. Keay, M.D.	Tuberculosis	17 Feb. 1919.
Arch. M'Kendrick, F.R.C.S.E.	Midwifery	22 Oct. 1894.
Hugh Miller	Mental Diseases	12 Apr. 1909.
	Physics	16 Mar. 1914.
	Zoology (Systematic and Practical)	15 Apr. 1912.
Winifred Muirhead, L.R.C.P. and S.	Bacteriology	13 Nov. 1911.
John Orr, M.D.	Materia Medica (Sys- tematic and Practical)	18 Nov. 1912.
Wm. Robertson, M.D.	Public Health	12 May 1913.
W. F. Robertson, M.D.	Pathology of Brain and Nervous System	15 Apr. 1907.
W. G. Aitchison Robertson, M.D.	Forensic Medicine	13 Nov. 1911.
G. F. Barbour Simpson, M.D.	Midwifery and Gyne- cology	14 May 1906.
A. A. Scot Skirving, C.M.G., M.B., C.M.	Surgery	13 Nov. 1911.
J. W. Struthers, M.B., Ch.B.		15 Dec. 1902.
W. J. Stuart, M.B., Ch.B.	Surgery	18 Oct. 1909.
James Adam Terras, B.Sc.	Surgery	18 Apr. 1910.
Dawson F. D. Turner, M.D.	Botany	12 Dec. 1898.
Henry Wade, M.D.	Physics	20 Mar. 1893.
J. R. Whitaker, M.B.	Surgery	19 Oct. 1908.
	Anatomy	16 July 1894.

Glasgow.

		<i>Date of Recognition.</i>
John Cowan, M.D.	Medicine	18 Nov. 1912.
Carstairs Douglas, M.D.	Forensic Medicine	13 Nov. 1916.
L. A. L. King	Zoology	15 June 1914.

Huddersfield.

W. R. Bower	Physics	14 Jan. 1907.
J. Bruce, D.Sc.	Chemistry	14 Dec. 1908.
T. W. Woodhead, Ph.D.	Botany	14 Jan. 1907.

Nottingham.

E. H. Barton, D.Sc.	Physics	12 Nov. 1906.
J. W. Carr, M.A.	Botany	16 Jan. 1893.
E. Holden, B.Sc.	Zoology	15 June 1914.
F. Stanley Kipping, Ph.D., D.Sc.	Chemistry	17 Nov. 1913.

Reading.

F. J. Cole, D.Sc.	Zoology	14 Dec. 1908.
W. G. Duffield, M.A., D.Sc.	Physics	24 July 1911.
Frederick Keeble, M.A., Sc.D.	Botany	14 Dec. 1908.

Singapore.

J. Argyll Campbell, M.D.	Physiology and Practical Physiology	13 Dec. 1915.
Hon. D. J. Galloway, M.D.	Practice of Medicine	19 Oct. 1914.

Southampton.

D. R. Boyd, D.Sc., Ph.D.	Chemistry	13 Feb. 1905.
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South Africa.**1. UNIVERSITY OF SOUTH AFRICA, PRETORIA.**

Teachers in First Year Subjects (Chemistry, Physics, Botany, and Zoology) are recognised.

2. UNIVERSITY OF STELLENBOSCH.

Teachers in First Year Subjects (Chemistry, Physics, Botany, and Zoology) are recognised.

3. UNIVERSITY OF CAPE TOWN.

		<i>Date of Recognition.</i>
J. C. Beattie, D.Sc., and Alex. Brown, B.Sc., conjointly	Courses in Physics and Applied Mathematics ¹	16 May 1904.
Dr J. D. F. Gilchrist	Zoology	18 Dec. 1905.
P. D. Hahn, Ph.D., M.A.	Chem. (Theoretical and Practical)	22 Oct. 1900.
William A. Jolly, M.B.	Physiology (Systematic and Practical)	18 Nov. 1912.
R. B. Thomson, M.B., Ch.B.	Anatomy and Practical Anatomy	15 Jan. 1912.

4. RHODES UNIVERSITY COLLEGE, GRAHAMSTOWN.

George E. Cory, M.A.	Chemistry ²	13 Nov. 1905.
J. E. Duerden, Ph.D., M.Sc.	Zoology	13 Nov. 1905.
S. Schönland, Ph.D.	Botany ²	13 Nov. 1905.
Prof. Varder	Physics	18 Nov. 1918.

5. NATAL UNIVERSITY COLLEGE, PIETERMARITZBURG.

J. W. Bews, M.A., B.Sc.	Botany	18 May 1911.
R. B. Denison, D.Sc.	Chemistry ³	18 May 1911.
Paul Mesham, M.Sc.	Physics	14 Dec. 1914.
Ernest Warren, D.Sc.	Zoology	18 Dec. 1905.

6. SOUTH AFRICAN SCHOOL OF MINES AND TECHNOLOGY, JOHANNESBURG.

A. Ogg, M.A., B.Sc.	Physics.	13 Nov. 1905.
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7. HUGUENOT COLLEGE, WELLINGTON.

Miss Jessie E. Minor	Chemistry ⁴	17 Nov. 1913.
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¹ Attendance on both Courses required for a QUALIFYING CERTIFICATE IN PHYSICS.

² The qualifying Courses are those for the Intermediate and for the B.A. Examinations of the University of the Cape of Good Hope.

³ Certificate to include Elementary Inorganic and Practical Inorganic, and Elementary Organic and Practical Organic.

⁴ Certificates to include attendance on following Courses:—(1) Intermediate Lectures and Laboratory Work; (2) B.A. Lectures and Laboratory Work.

REGULATIONS FOR GRADUATION IN MEDICINE AND SURGERY, APPLICABLE TO ALL WHO COMMENCED THEIR MEDICAL STUDIES BEFORE FIRST OCTOBER 1892.

*For full Regulations, see CALENDAR for 1898-99, or previous
CALENDARS.*

PRELIMINARY EXAMINATIONS.

*Optional Preliminary Subjects of Examination under the Old Regulations
for Bachelors of Medicine and Masters in Surgery (M.B., C.M.) who
intend to proceed to the Degree of Doctor of Medicine, and for those
who commenced the Study of Medicine by attendance on Medical Classes
before 1st October 1892.*

Each Candidate is required to pay a fee of 10s. 6d. for each appearance
at the Preliminary Examination.

1. GREEK.—Xenophon, *Cyropaedia*, Book II. Questions on Elementary
Greek Grammar. Some easy sentences of English will be set, to be
translated into Greek.

2. FRENCH.—Alphonse Daudet's *Le petit Chose, première partie*
(Hachette & Co.). Questions on Elementary French. An easy passage
in English will be given for translation into French.

3. GERMAN.—Homann, *Deutsche Märchen*, Nos. 8-14. Questions on
Elementary German. An easy passage in English will be given for
translation into German.

4. HIGHER MATHEMATICS.—Same as Higher Mathematics for the
Preliminary Examination for the Degree of M.A.

5. NATURAL PHILOSOPHY. — (1) Properties of matter—Elasticity,
Density, Capillarity, etc. (2) Elementary phenomena of Sound, Light,
Heat, Electricity, and Magnetism. Text-books recommended—Balfour
Stewart's *Elementary Physics*, and Tait's *Properties of Matter*.

6. LOGIC.—The Elements of Deductive and Inductive Logic, as in
Jevons's *Elementary Lessons*.

7. MORAL PHILOSOPHY.—Professor Seth's *Ethical Principles*, Intro-
duction and Part I.

DEGREE OF DOCTOR OF MEDICINE.¹

The Degree of DOCTOR OF MEDICINE may be conferred on any
candidate who has obtained the Degrees of Bachelor of Medicine and

¹ Candidates for M.D. under Old Regulations, who have not passed all the required
Preliminary subjects may, if they prefer to do so, take the examination in Clinical
Medicine, and graduate under the New Regulations. (See page 592.)

Master in Surgery, and is of the age of twenty-four years, and produces a certificate of having been engaged, subsequently to his having received the Degrees of Bachelor of Medicine and Master in Surgery, for at least two years in attendance on an Hospital, or in the Military or Naval Medical Services, or in Medical and Surgical Practice:

Provided always that the Degree of Doctor of Medicine shall not be conferred on any person, unless he be a Graduate in Arts of one of the Universities of England, Scotland, or Ireland, or of such other Universities as have been specially recognised for that purpose, or unless he shall, before or at the time of his obtaining the Degrees of Bachelor of Medicine and Master in Surgery, or thereafter, have passed a satisfactory examination in Greek, and in either Logic or Moral Philosophy, and in one of the following subjects at the option of the Candidate—namely, French, German, Higher Mathematics, and Natural Philosophy.

And provided also that the candidate for the Degree of Doctor of Medicine shall submit to the Faculty of Medicine a Thesis, certified by him to have been composed by himself, and which shall be approved by the Faculty, on any branch of knowledge comprised in the professional examinations for the Degrees of Bachelor of Medicine and Master in Surgery, which he may have made a subject of study after having received those Degrees. The Candidate must lodge his Thesis with the Dean by the specified date (see below).¹ No Thesis will be approved by the Medical Faculty which does not contain either the results of original observations in practical Medicine, Surgery, Midwifery, or in some of the sciences embraced in the curriculum for the Bachelor's and Master's Degrees; or else a full digest and critical exposition of the opinions and researches of others on the subject selected by the Candidate, accompanied by precise references to the publications quoted, so that due verification may be facilitated. Theses must be of such a character as will be creditable to the University, if published.

Candidates settled for a period of years in foreign parts, who have complied with all the regulations for the Degree of M.D., but who cannot appear personally to receive the Degree, may, on satisfying the Senatus to that effect, by production of sufficient official testimonials, have the Degree conferred on them in absence.

Fee for M.D.	:	:	:	:	:	£5	5	0
Matriculation Fee :	:	:	:	:	:	1	1	0

1919.

Oct. 1. Wed. Theses to be given in, Certificates shown, and Fees paid
on or before this date.

1920.

Mar. 31. Wed. Do. do.

1919.

Dec. 19. Fri. GRADUATION CEREMONIAL.

1920.

July 8. Thur. Do. do.

¹ See footnote 1, p. 591.

**FELLOWSHIPS, SCHOLARSHIPS, BURSARIES,
PRIZES, ETC.****I. Fellowships, Scholarships, Endowments for
Research, etc., in the Faculty of Medicine.**

(ARRANGED ALPHABETICALLY.)

Note.—The values of Fellowships and Scholarships are stated *approximately* :
the accuracy of the figures is not guaranteed.

Regulations as to Candidature for, and Tenure of Fellowships,
Scholarships, etc., are given on pages 641-644.

In the case of Scholarships, etc., the award of which has
been deferred, preference will be given to candidates who
were qualified at the time when, in ordinary course, the
award would have been made. A period of War Service
will not be counted in reckoning qualification.

**ALLAN FELLOWSHIP IN CLINICAL MEDICINE AND
CLINICAL SURGERY. (Open July 1920.)**

This Fellowship, of about £90, is awarded annually—after competitive
examination of the six candidates for the degrees of M.B., C.M., or M.B.,
Ch.B., who, after having attended in the University of Edinburgh the
necessary qualifying courses in Clinical Medicine and Clinical Surgery,
shall obtain the highest percentage of marks in these subjects at the final
examination for these degrees. See Deed of Endowment and Regulations,
p. 833 of CALENDAR for 1899-1900.

1919, PETER M. BRODIE, M.B., Ch.B.

BUCHANAN SCHOLARSHIP. (Open July 1920.)

This Scholarship, of the value of about £40, founded by Mrs Jane
Jack or Buchanan, Moray Place, Edinburgh, is awarded annually to the
Graduate in Medicine of the year who has shown the highest proficiency
in Midwifery and Gynecology, as evidenced in (1) the Class Examinations
of Midwifery and Diseases of Women and Children; (2) the Records kept
by him of cases treated in the Gynecological Section of the University Class
of Clinical Medicine in the Buchanan Ward of the Royal Infirmary; and
(3) the Final Examination in Medicine for the Degree of M.B. The
Scholar is required to act for a period of six months as Resident Physician
in the University Gynecological Ward. See Deed of Foundation, p. 707 of
CALENDAR for 1894-95.

1919, HARRY S. LUCRAFT, M.B., Ch.B.

**CARNEGIE POST-GRADUATE SCHOLARSHIPS (£100),
FELLOWSHIPS (£150), AND GRANTS IN AID OF
RESEARCH.**

Graduates of this University are entitled to become Candidates. Application forms may be had from the Secretary to the Carnegie Trust, The Merchants' Hall, 22 Hanover Street, Edinburgh, to whom all communications on the subject must be addressed. Nominations for Scholarships and applications for Fellowships and Grants in Aid must be lodged with the Secretary not later than 15th April.

**COLDSTREAM MEMORIAL MEDICAL MISSIONARY
SCHOLARSHIP.**

(May be open October 1919.)

The Coldstream Memorial Medical Missionary Scholarship, consisting of the annual interest of about £500, was founded in memory of the deceased John Coldstream, M.D., F.R.C.P.E., and is tenable for five years. The holder must be a first year's Medical Student, who intends to devote himself to the life of a Medical Missionary at home or abroad. He must be approved of by the awarders, and pass the Preliminary Examination before beginning his studies. A preference is given to students connected with the Edinburgh Medical Missionary Society. A full copy of the conditions can be had on applying to G. E. R. Coldstream, W.S., 55 Frederick Street, Edinburgh. Next award may be in October 1919. See Conditions in CALENDAR for 1879-80, p. 357.

CRICHTON SCHOLARSHIPS FOR RESEARCH.

(May be open October 1919—see below.)

Four Scholarships, each of the value of £100 (with an allowance, not exceeding £25, for expenses of research), and tenable for one year, with power of re-appointment for a second and for a third year, are open in rotation in the subjects of Anatomy, Physiology, Materia Medica, and Pathology, for the prosecution of Research by Graduates who have been Students of this University for not less than four years. The Scholarships in Pathology, Anatomy, and Physiology may be open in October 1919. Candidates are required to enter their names and to give a sufficient description of the Research Work they propose to undertake, to the Professors of the subjects in which the Scholarships are to be awarded, and to the Dean of the Faculty of Medicine, on or before 1st September. The Examination is both written and practical, bearing on Research Work. See Regulations, p. 750 of CALENDAR for 1895-96.

CROPPER (JAMES) SCHOLARSHIPS.

(Two Scholarships open October 1919.)

Three Scholarships, of the annual value of £19, 10s., tenable for three years, are open for award every third year; but in any year when a Scholarship falls vacant an award may be made. The Scholarships are open to women who are natives of India, and who are studying in Edin-

burgh with the view of graduating in medicine in the University of Edinburgh, and such candidates shall have a preference. Failing suitable applicants from amongst natives of India, the Scholarships are open to any other women students of medicine; but those who declare their intention to work in India shall have a preference. The Scholarships are awarded by the Senatus on the recommendation of the Faculty of Medicine, and, in the event of its being considered desirable, the Senatus may institute an examination in order to assist in determining the applicants to whom the Scholarships shall be awarded. Two Scholarships may be awarded in October 1919. Applications should be addressed to the Secretary of Senatus on or before 1st October.

1917, VERA F. CARLETON, MARY C. CAMPBELL.

DICKSON TRAVELLING FUND. See Faculty of Arts.

ETTLES SCHOLARSHIP IN MEDICINE. (Open July 1920.)

This Scholarship was founded in 1868 by Miss Mary Ettles of Inverness, and is of the annual value of about £49. It is awarded annually to the Bachelor of Medicine and Master in Surgery, or Bachelor of Medicine and Bachelor of Surgery, of the University of Edinburgh whom the Faculty of Medicine may consider the most distinguished of that year. See Deed of Foundation at p. 242 of CALENDAR for 1868-69.

1918, WALTER T. BENSON, B.Sc., M.B., Ch.B. (Surg.-Prob., R.N.V.R.).
1919, RAYMOND L. LANGLEY, M.A., M.B., Ch.B.

FREELAND BARBOUR FELLOWSHIP. (Open July 1920.)

This Fellowship is of the value of about £118, and is open to award, in each alternate year, to the Bachelor of Medicine and Bachelor of Surgery who has gained the highest collective marks in Anatomy, Physiology, and Pathology in the Professional Examinations, and who is prepared, within two years after graduation, to devote not less than one year to original research in Midwifery or diseases of women, in any of the Laboratories or Practical Departments of the University of Edinburgh. The next award may be made in July 1920. See Deed of Foundation at p. 517 of CALENDAR for 1889-90.

GOODSIR MEMORIAL FELLOWSHIP. (Open July 1920.)

This Fellowship was founded in 1872 by the subscribers to the fund for a memorial of Professor John Goodsir, for the encouragement of the study of Anatomy and Physiology. It is of the annual value of about £150, under deduction of Examiners' fees, is tenable for two years, and is open to all Graduates in Medicine of the University of not more than three years' standing at the time of the competition, and to Licentiates of the Colleges of Physicians or Surgeons of Edinburgh of a like standing, who have attended within the University the same number of classes as are required for the Degrees of M.B. and Ch.B. It is awarded for the best

Essay or Treatise containing results of original investigations in Anatomy, Human and Comparative, either Normal or Pathological, or in Experimental Physiology; candidates may be examined *visa voce* or otherwise on the subject of their Essays or Treatises if the Examiners shall deem this desirable.

The next award may be made in July 1920, and competing Dissertations must be lodged with the Professor of Anatomy not later than the 31st March of that year. See Deed of Foundation at p. 314 of CALENDAR for 1872-73.

GROCCERS' COMPANY OF LONDON SCHOLARSHIPS.

The Grocers' Company of London offer Scholarships of £300 a year, with an allowance to meet cost of apparatus and other expenses in connection with the Research Work, tenable for one year, but renewable for a second or third year, subject to the conditions of the Scheme under which they are established. Apply to the Clerk to the Grocers' Company, Grocers' Hall, London, E.C., from whom forms of application and all necessary information may be obtained.

GRIFFITH. (See Waldie Griffith.)

HOPE PRIZE SCHOLARSHIPS. (Open June 1920.)

Three Hope Prize Scholarships in Chemistry, each of the annual value of about £30. For particulars, see under FACULTY OF SCIENCE.

HOULDSWORTH SCHOLARSHIP. (Open Oct. 1919.)

This Scholarship, founded by the Houldsworth Trustees, for the purpose of promoting Research in Pharmacology in the Department of Materia Medica in the University, is of the annual value of about £65, and tenable for one year, with power to re-elect for a second, or even a third year, if good work is being done by the Scholar. It is awarded to a Graduate in, or Student of Medicine of the University, after such examination, competitive or otherwise, as may be deemed necessary. The Scholar must engage in research work in the Materia Medica Department, and assist the Professor as he may require. Names to be entered with the Dean of the Faculty of Medicine, on or before 20th September. For Deed of Foundation, see p. 421 of CALENDAR for 1897-98.

LECKIE-MACTIER FELLOWSHIP. (Open 1919.)

The Leckie-Mactier Fellowship, of the annual value of about £123, is awarded to Bachelors of Medicine of not more than three years' standing, and is tenable for three years. The examinations comprise written reports and commentaries on medical, surgical, and gynecological cases in the University Wards in the Royal Infirmary, and written examinations in Midwifery, Medical Jurisprudence, and Public Health; also oral examinations in Medicine, Surgery, Midwifery, Medical Jurisprudence, and Public Health. The holder shall report every six months to the Dean where and

how he is engaged in the study or exercise of his profession, and before the expiry of his tenure, must transmit to, and, if required, read publicly in the presence of the Medical Faculty, a communication embodying the result of original observation or historical research in some department of medicine. Open in 1919: names to be entered with the Dean of the Faculty of Medicine, on or before 15th October. See Deed of Foundation at p. 365 of CALENDAR for 1880-81.

M'COSH. See Bursaries.

M'CUNN MEDICAL RESEARCH SCHOLARSHIPS.

(Open Oct. 1919.)

Four Scholarships, each of £100, and tenable for one year, but which may be renewed for a second year, if the Trustees deem this expedient, are open to all Graduates of Medicine of the Universities of Edinburgh, Glasgow, Aberdeen, and St Andrews, of not more than two years' standing. The Subjects of Examination are:—Group A, Medicine, Surgery, Pathology, and Bacteriology; Group B, Therapeutics, Public Health, Physiology, and Physiological Chemistry. The Scholarships shall be awarded in alternate years in Groups A and B, for the encouragement of original research in one or more of the subjects of Examination. A candidate must be nominated by a Professor or Lecturer, or by a Teacher in Scotland, recognised by a Scottish University, for the purpose of Graduation in Medicine.

Applications and nominations* must be made on forms supplied by Messrs M'Innes, M'Kenzie, and Lochhead, Secretaries to M'Cunn's Trustees, 7 Gilmour Street, Paisley, and must be lodged with them on or before 1st September. The nominated candidates shall be examined in the month of October annually in the subjects in one of Groups A or B, as the case may be, and the tenure of the Scholarships shall date from 1st November following. Due notice of the time and place of the Examination will be given by advertisements in the *Scotsman* and *Glasgow Herald*, or in such form as the Trustees may direct.

The Scholar shall prosecute research in one or more of the subjects in which he has been examined, in such Institutions at home or abroad, as may be approved by the Trustees. The Scholarships shall be payable half-yearly in advance. Before receiving payment of the second instalment, the Scholars shall transmit to the Secretaries to the Trustees a satisfactory report of work done, or in progress, and a satisfactory certificate from the authority under whose supervision they are working. If not satisfied with the Scholar's progress or conduct, the Trustees may suspend or withhold payment of any second or subsequent instalment. The Scholarships shall not be held along with any other Scholarship or position of emolument, except in study or research, and with the written sanction of the Trustees, and the Scholars shall ordinarily be expected to devote their whole time to subjects of research. Each Scholar in any work or communication to any Medical or Scientific Journal or Society, published during his tenure of a Scholarship, or as the result of researches performed during that time, but published later, shall use the words after his name and titles, "M'Cunn Scholar."

MACKAY SMITH SCHOLARSHIP IN CHEMISTRY.

(See under Faculty of Science.)

MORAY (EARL OF) ENDOWMENT FOR THE PROMOTION OF ORIGINAL RESEARCH.

(See under Faculty of Arts.)

MOUAT SCHOLARSHIP IN THE PRACTICE OF PHYSIC.

(Open July 1920.)

This Scholarship, of the value of about £59 (partly in money and partly in the form of a bronze medallion), is awarded annually at the Graduation Ceremonial in Medicine, to the graduate in Medicine who shall have taken the highest place in the competitive Examinations in the Class of Practice of Physic (Medicine) in this University, and in the Oral and Written Examinations in that subject in the Final Examination.

The Scholar shall be bound during his year of tenure to pursue the study of Medicine either as resident in an Infirmary or Hospital, or in the University of Edinburgh, or other University or Medical School at home or abroad, and to present, at the close of such year, to the Professor of Practice of Physic, or to the Senatus Academicus, a Report of the work he has done in such Infirmary, Hospital, University, or Medical School. The money part of the Scholarship will only be paid on the Senatus receiving a certificate from the Dean of the Faculty that the conditions of the Scholarship have been duly fulfilled.

1918, HARRY R. GOLDBERG, M.B., Ch.B.

1919, RAYMOND L. LANGLEY, M.A., M.B., Ch.B.

MURCHISON MEMORIAL SCHOLARSHIP. (Open 1920.)

This Scholarship, of the value of £21, and tenable for one year, is awarded in alternate years in London and Edinburgh, for proficiency in Clinical Medicine. Candidates must be registered Medical Students who, subsequently to the date of passing their Professional Examination in Anatomy and Physiology for a Medical qualification, have studied for a period of not less than two and a half, and not more than five, years at a Medical School in London recognised by the Royal College of Physicians, or at the University of Edinburgh, including Medical Classes recognised by the University, whether holding a Medical qualification or not. The competition in 1920 will be held in Edinburgh.

SCOTT (JAMES) SCHOLARSHIP. (Open July 1920.)

This Scholarship, founded by Mrs Mary Ann Spott or Thomson of Hawick, of the value of about £34, is awarded annually at the Graduation Ceremonial in Medicine in July, for proficiency in Midwifery and Gynecology, as evidenced in (1) the Class Examinations in Midwifery and Gynecology; (2) the records of cases taken by the candidate in the Royal Maternity and Simpson Memorial Hospital; and (3) the Final Examination in Midwifery and Gynecology for the degrees of M.B. and Ch.B.

The Scholarship is for one year, but may, in special circumstances, be continued for another year. See Deed of Foundation, p. 410 of CALENDAR for 1883-84.

1918, ROBERT E. J. BURNS, M.B., Ch.B.

1919, ALICE BLOOMFIELD, M.B., Ch.B.

SIBBALD MEDICAL SCHOLARSHIP. (Open Oct. 1919.)

This Scholarship is of the annual value of £40. *First*, The Scholarship is bestowed on, and held by, a Student in the Faculty of Medicine in the University of Edinburgh, *who does not hold any other Scholarship or Bursary*, and is tenable for three years. During each year the Scholar must complete an *Annus Medicus* required from candidates for the degree of Bachelor of Medicine. *Second*, It is bestowed upon the Student obtaining the highest place by Competitive Examination, and is open to all candidates who have not previously been Students of Medicine in any other School or University, and who have attended Medical Classes in the University of Edinburgh, for *not less* than one Winter and one Summer Session, and for *not more* than one Winter and two Summer Sessions. The Competitive Examination is in Chemistry, Botany, Natural History, and Physics, and is conducted in such manner as the Senatus Academicus may, in concurrence with the Trustees, prescribe. The next competition will take place in October 1919; and a Scholarship will also be competed for in October 1920, and another in October 1921. Thereafter the competition will be triennial as heretofore. Application to be made to Messrs Mackenzie, Innes, & Logan, W.S., 25 Melville Street, Edinburgh, on or before 15th September.

STARK SCHOLARSHIP IN CLINICAL MEDICINE.

This Scholarship, of about £120, and tenable for one year, is for the encouragement of the study of Clinical Medicine. It is open to competition among all matriculated Students of the University who are or have been in attendance at the University Class of Clinical Medicine, and to Bachelors of Medicine of the University of not more than eighteen months' standing who have attended this class. It is open every second year alternately with the competition in Edinburgh for the Murchison Memorial Scholarship. The Examination, oral and in writing, shall include (a) Examination of Patients; (b) Questions on Therapeutics and Pathology; (c) Examination of Specimens. Each holder of the Scholarship shall be required to devote his time in the wards of the Professors of Clinical Medicine to original investigation or other work directly connected with Clinical Medicine; to report his proceedings every three months to the Professors of Clinical Medicine; and, within a reasonable time after the expiry of his tenure of the Scholarship, to present to the Faculty of Medicine a written statement of the results of his investigations or other work. It cannot be held along with any other Fellowship, Scholarship, or Bursary in a Scottish University. The next competition will take place in June 1921. See Deed of Foundation at p. 427 of CALENDAR for 1884-85.

SWINEY LECTURESHIP ON GEOLOGY.

See Faculty of Science.

SYME SURGICAL FELLOWSHIP.

This Fellowship, of the annual value of about £194, and tenable for two years, is open to award to the Bachelor of Medicine and Master in Surgery, or Bachelor of Medicine and Bachelor of Surgery, of not more than three years' standing, who, in the opinion of the Examiners, has passed a creditable examination for these degrees, for the best Thesis on a Surgical subject giving evidence of original research, or practical talent, whether such Thesis be given in for Graduation or otherwise. The next award may be at the Graduation Ceremonial in July 1919; and competing Theses must be lodged with the Dean of the Faculty of Medicine not later than 31st March.

THOMSON SCHOLARSHIP. (Open Oct. 1919.)

The Thomson Scholarship, £40 a year, tenable for four years, is open to matriculated students commencing their first Winter Session in Medicine. The examination is in Botany, Zoology, and Elementary Mechanics. The Scholarship is awarded to the candidate who obtains the highest number of marks in the examination. The Trustees, however, reserve power to themselves to withhold the appointment, should none of the candidates obtain a sufficiently high percentage of the marks in the examination. Candidates must send in their names to the agents for the Trust, before the first day of October in the year in which there is a competition for the Scholarship. Students of the name of Thomson or Traquair, or those who are natives of the town or county of Dumfries, or of the city of Edinburgh, have a preference. The next appointment may be made in October 1919. For further particulars, application to be made to Messrs Traquair, Dickson, & Maclaren, W.S., 11 Hill Street, Edinburgh.

1914, KENNETH M. PURVES.

VANS DUNLOP SCHOLARSHIPS.

There are nine Scholarships, each of £100 a year, tenable for three years. Not more than one at a time can be held by the same person. The successful candidates for each of these Scholarships will be required to continue their medical studies in this University during their tenure of their Scholarships, and to graduate as M.B. and Ch.B. In the event of a Vans Dunlop Scholar, whose Scholarship has been awarded at the beginning of the fourth or fifth Winter Session, desiring to interrupt his tenure by accepting a Residency in the Royal Infirmary, or other approved Hospital, he must make application to the Faculty for permission to do so, and, if they think proper to grant it, they will recommend the Senatus to reinstate him as a scholar at the close of his Hospital service. See Excerpt from Will of Dr Vans Dunlop, p. 380 of CALENDAR for 1880-81.

Preliminary.

This Scholarship is awarded to the Candidate who, at either the March or the preceding October Medical Preliminary Examination, has obtained the highest number of marks in the subjects required to enable him to appear for a Professional Examination, provided (1) that he has not already

passed the said Preliminary Examination ; and (2) that, in the event of his having passed an equivalent examination and presenting himself for the Medical Preliminary Examination, he shall waive all right to admission to the Faculty of Medicine except through the ordinary Medical Preliminary Examination of this University. The next award may be made in March 1922.

1919, JOHN G. MCRIE.

Chemistry and Physics.

This Scholarship is awarded at the end of the First Winter of Medical Study, to the Student who, after having attended for the first time within the University a Systematic Course of Lectures on each of the subjects of Chemistry and Physics, not having previously attended any course in Chemistry or Physics which qualifies for Degrees in Medicine or for a Licence in Medicine or Surgery, shall obtain the highest number of marks in an Examination in these subjects, specially conducted for the purpose. Two Scholarships may be awarded in March 1920.

1914, ROBERT WALLACE.

Botany and Zoology.

This Scholarship is awarded at the end of the First Summer Session of Medical Study, to the Student who, after having attended for the first time within this University a Systematic Course of Lectures on each of the subjects of Botany and Zoology, not having previously attended any course in Botany or Zoology which qualifies for Degrees in Medicine or for a Licence in Medicine or Surgery, shall obtain the highest number of marks in an Examination in these subjects specially conducted for the purpose. Two Scholarships may be open in 1920. Names to be entered with the Dean of the Faculty of Medicine, on or before 15th June.

1918, THOMAS SKENE.

Physiology.

This Scholarship is awarded at the beginning of the Third Winter of Medical Study, to the Student who, after having attended within the University for the first time a Systematic Course in the subject of Physiology, not having previously attended a course in Physiology which qualifies for Degrees in Medicine or for a Licence in Medicine or Surgery, shall obtain the highest number of marks in an Examination in that subject specially conducted for the purpose. The next award may be made in October 1920. Names to be entered with the Dean of the Faculty of Medicine on or before 22nd September.

1914, ROBERT MAILER.

Prox. acc., JOSEPH SCHNEIDER.

Anatomy.

This Scholarship is awarded in October of the Third Winter Session of Medical Study, to the Student who, after having attended within the University the Systematic and Practical Instruction in the subject of

Anatomy, and having passed the Second Professional Examination, shall obtain the highest number of marks in an Examination in that subject specially conducted for the purpose. The next award may be made in October 1920. Names to be entered with the Dean of the Faculty of Medicine on or before 22nd September.

Pathology and Surgery.

This Scholarship is awarded to the Student at the end of the third year of Medical Study, who, after having attended within the University the Systematic and Practical Courses in Pathology and the Systematic Courses in Surgery, shall obtain the highest number of marks in an Examination in these subjects specially conducted for the purpose. The successful candidate will be required to continue his studies, and graduate as M.B. and Ch.B. in this University, during the second year of his tenure of the Scholarship, and to devote himself during the remainder of his tenure to Original Investigation in one or other of the Research Laboratories in the Faculty of Medicine. The next award may be made in March 1920. Names to be entered with the Dean of the Faculty of Medicine on or before 1st March.

1915, ANDREW J. CAIRD, M.A.

Materia Medica and Medicine.

This Scholarship is awarded at the end of the Fourth Winter Session of Medical Study, to the Student who, after having attended within the University a Systematic Course in the subjects of Materia Medica (including Pharmacology) and Medicine, shall obtain the highest number of marks in an Examination in these subjects specially conducted for the purpose. The successful candidate will be required to continue his studies in this University during the first year of his tenure of the Scholarship, and at the end of the first year to graduate as M.B. and Ch.B.; and during the remainder of his tenure of the Scholarship to devote himself to Original Investigation in one or other of the Research Laboratories in the Faculty of Medicine. The next award may be made in March 1920. Names to be entered with the Dean of the Faculty of Medicine on or before 1st March.

1915, BENJAMIN J. RYRIE.

Forensic Medicine, Public Health, and Midwifery.

This Scholarship is awarded at the beginning of the Fifth Winter Session of Medical Study, to the Student who, after having attended within the University the Systematic Courses in Forensic Medicine, Public Health, and Midwifery, and having passed the Third Professional Examination, shall obtain the highest number of marks in an Examination in these subjects specially conducted for the purpose. The successful candidate will be required to continue his studies, and graduate as M.B. and Ch.B. in this University during the first year of his tenure of the Scholarship, and to devote himself during the remainder of his tenure to Original Investigation in one or other of the Research Laboratories in the Faculty of Medicine. Two Scholarships may be awarded in October 1919.

Pathological Bacteriology.

This Scholarship is open to students of the fifth year who have attended the class of Pathology in the University and to graduates of the University of not more than two years' standing. It will be awarded on the results of a Written and Practical Examination in Pathology and Bacteriology. The successful candidate will be required during his tenure of office to devote himself to original investigation in Pathological Bacteriology in one or other of the Research Laboratories in the Faculty of Medicine. The Scholarship is tenable on condition that the scholar shall submit annually to the Senatus a written report of the work done during each year. On the recommendation of the Faculty, the Senatus may grant permission to a Scholar, (a) to prosecute his research elsewhere than in the University; (b) to undertake such teaching duties as may not interfere with his researches. In the event of a scholar desiring temporarily to interrupt his research, he must make application to the Senatus through the Faculty for permission to do so, and if the Faculty think proper to grant it, they will recommend the Senatus to reinstate him as a scholar at the end of the period of interruption. Open 1919-20.

WALDIE GRIFFITH SCHOLARSHIP.

(Open October 1919.)

This Scholarship is of the annual value of £6, 14s., and is open to women studying for graduation in medicine at, or graduates in medicine of, the University of Edinburgh, who are carrying on the work with the object of increasing their medical knowledge at the Edinburgh Hospital and Dispensary for Women and Children, Whitehouse Loan, Edinburgh. Failing any such students or graduates, the Scholarships shall be applied by the University Court in providing for financial assistance to women studying for graduation in medicine at, or graduates in medicine of, the said University. The Scholarship shall be awarded by the Senatus on the recommendation of the Faculty of Medicine, and is open for award in October 1919. Applications should be made to the Secretary of Senatus on or before the 1st of October in each year.

1918, ELIZABETH M. R. GARRIGAN.

WARDLAW (D. R.) MEMORIAL BEQUEST.

(See under Faculty of Arts.)

II. Bursaries in the Faculty of Medicine.

•(ARRANGED ALPHABETICALLY.)

Note.—The values of Bursaries are stated *approximately*.For *Conditions of Tenure, etc.*, see pages 641-644.**ABERCROMBY. (Open Oct. 1919.)**

Founded in 1864, by Dr Abercromby, Cape Town. One Bursary: £20 for 1 year. Patrons, the Governors of George Heriot's Trust.

The Bursary is open annually, by competition, in the event of more than one candidate coming forward, to Students who have been educated in George Heriot's School, and have finished their course as Heriot Bursars, to aid them in further prosecution of their studies for any of the learned professions: students in the Faculty of Medicine to be always preferred. Candidates must apply to the Clerk of the Heriot Trust, 20 York Place, Edinburgh, before 1st September.

ANDERSON.

Founded in 1882, by Mrs Ronald of Liverpool. Two Bursaries: each about £40 a year.

The Bursaries will come into operation on the death of an annuitant. For Deed of Foundation, see CALENDAR 1882-83, p. 396.

ARCHIBALD OR M'GUFFIE. (Open Oct. 1919.)

Founded in 1914 by the Rev. George M'Guffie. One Bursary: about £34, for one year.

A preference will be given to students bearing the name of Archibald or M'Guffie, who have been born in one of the parishes of Dollar, Tillicoultry, or Whithorn, or educated in any of the schools of these parishes; whom failing, to any youths born in any of the said parishes or educated in any of the said schools, although not bearing either of the said names. The Bursary is awarded annually in October. In the event of more than one preferential candidate applying for the Bursary, it is awarded by competition in the subjects of the Medical Preliminary Examination. In the absence of preferential candidates, the Bursary is awarded to the candidate who obtained the highest marks in either the March or September Preliminary Examination preceding the date of award. Names of candidates (preferential or non-preferential) must be entered by 10th September. See Deed of Foundation, p. 799 of CALENDAR for 1914-15.

1916, EDWARD A. WILSON.

1918, DAVID H. D. YOUNG (Preferential).

CARLYLE (JOHN AITKEN). (Open March 1920.)

Founded in 1878, by John Aitken Carlyle. Two Bursaries: each about £30 for 1 year.

One Bursary is awarded at the end of each Winter Session to a first year Student, for proficiency shown in the ordinary examinations in the classes of Anatomy and Chemistry; the other to a second year Student, for proficiency shown in Practical Anatomy and in Physiology. See CALENDAR for 1879-80, p. 350.

1918 (Senior), R. G. M'INTYRE.

(Junior), JESSIE BELES.

1919 (Senior), EDWARD D. DINGLE.

(Junior), D. S. CHERRY.

CRICHTON. (Open 1919-20—see below.)

Founded in 1890, by Major R. Orr Crichton of Lynn, M.D. Fourteen Bursaries : each £50 a year, for 4 years.

Two of these Bursaries will be open, one in Autumn and one in Spring—to Students entering the Faculty of Medicine of this University, who have been born in Scotland. The subjects of Examination are Latin, Greek, French, German, Mathematics, Logic, and Moral Philosophy. Each Bursary is tenable for four years, provided the Bursar continues to be a Student of the Medical Faculty of this University. See Excerpt from Deed, p. 540 of CALENDAR for 1891-92, and Regulations, p. 749 of CALENDAR for 1895-96.

1913, WM. ANDERSON, JAMES D. MILL.

1915, JAMES A. HART.

1916, WILLIAM EAMIE M.A., B.Sc.

1917, JOHN HENDERSON, M.A., D. S. CHERRY.

1918, THOS. V. R. PHILIP, MARGARET L. MUIR.

GRIERSON. (Open 1919-20—see below.)

Founded in 1873, by Mr Grierson of Ogscastle's Trustees. Five Bursaries : three of £20, and two of £10 a year (see below).

Candidates from the parishes of Crawford or Leadhills, about to commence their Medical Curriculum, who have passed in the University of Edinburgh a satisfactory examination in the preliminary subjects required by the Regulations for Graduation in Medicine, who have been diligent students, and who require pecuniary aid to enable them to pursue their studies, have a preference. In the case of more candidates than one, the Bursary will be awarded to the best qualified, on examination in the subjects above referred to.

Failing the appointment of preferential candidates, the Bursaries will be tenable for periods of one year only, in manner following, viz. :—One (£20) will be awarded to the student who, not having completed his twenty-first year, shall pass the best examination of the year in the subjects of the Preliminary Examination, provided (1) that he has not already passed the said Preliminary Examination ; and (2) that, in the event of his having passed an equivalent examination and presenting himself for the Medical Preliminary Examination, he shall waive all right to admission to the Faculty of Medicine except through the ordinary Medical Preliminary Examination of this University. One (£20) will be awarded by competitive examination to the student beginning the Second Winter Session, who, having already passed the Preliminary Examination required for Graduation in Medicine, shall pass the best examination in the subjects of Chemistry, Botany, Natural History, and Physics. One (£20) will be awarded by competitive examination to the student beginning the Third Winter Session who, having already passed the First Professional Examination, shall pass the best examination in the subjects of Anatomy and Physiology. One (£10) will be awarded by competitive examination in Pathology, at the beginning of the Fourth Winter Session. One (£10) will be awarded by competitive examination in Materia Medica, at the beginning of the Fourth Winter Session. Competitions for the Bursary

in Preliminary subjects will take place in September 1919 and March 1920. The competition for the Bursaries in the subjects of the First Professional, Second Professional, and Third Professional will take place in October 1919 on dates to be afterwards announced. Names of candidates to be entered on or before 20th September.

- 1917 (Second Professional), HUGH M. FORBES.
 1918 (Preliminary), ANDREW M'FARLANE (Preferential).
 (First Professional), THOMAS FERGUSON.
 (Pathology), THOMAS SPRUNT.
 1919 (Preliminary), FRANK R. ASHTON.

GRIGOR.

Founded in 1905, by Dr John Grigor, Nairn. One Bursary: £30 a year, for 5 years. Patrons, the Trustees of Dr Grigor.

The Bursary is to be held by a young man who is a native of the county of Nairn, or who, at the date of application, is resident in the county of Nairn, and has for five years previously resided in said county, and whose parents are unable to defray the cost of a Medical Education for him, to enable such young man to pursue his Medical Studies at Edinburgh University. Applicants must not be under the age of seventeen. Apply to A. Cumming, solicitor, Nairn, Clerk to the Trustees, on or before 31st August, from whom copies of the regulations may be had.

HERIOT (for Women). (May be open June 1920.)

(For Heriot Foundation, see under **Faculty of Arts**.)

One Bursary (or more): £30 a year, for 3 years. Patrons, the Heriot Trust.

Candidates must sit an examination in subjects of the Arts First Year Bursaries Examination. For further particulars apply to the Clerk of George Heriot's Trust, 20 York Place, Edinburgh, before 20th May.

- 1917, JESSIE EELES.
 1918, ELLEN A. MORRISON.
 1919, ISABELLA M. ROSS.

M'COSH. (Open July 1920.)

Founded in 1897, by Dr John M'Cosh. Two Bursaries—(1) **The M'Cosh Graduate's Bursary**: £317 for 1 year; **The M'Cosh Medical Bursary**: £20 for 1 year.

The holder during his tenure is required to prosecute Study or Research in a Medical School or Medical Schools of Europe, it being in the discretion of the Faculty of Medicine to award both Bursaries to the same person. Applications for the Bursaries must be made to the Dean of the Faculty of Medicine not later than 3rd July, and must be accompanied by a statement of the name or names of the Medical School or schools intended to be visited, of the time proposed to be spent at each school, and of the nature of the study or special work proposed to be engaged in. Bachelors of Medicine and Bachelors of Surgery are eligible for appointment during one year after graduation. In considering the claims of candidates, the

Faculty of Medicine will take into account not only their professional attainments and ability, but also the knowledge they possess of foreign languages; and it shall be in the option of the Faculty to satisfy themselves with regard to this knowledge by the examination of candidates. Candidates who already hold a Bursary, Scholarship, or Fellowship will not be disqualified, except in cases where the Bursary, Scholarship, or Fellowship requires, as a condition of tenure, the prosecution of Original Research, or some other condition which may be interfered with by the holding of a M'Cosh Bursary. Holders of the Bursaries will be required at the end of each three months to transmit to the Dean of the Faculty of Medicine a report of the manner in which they are pursuing their studies, or of the progress being made in any special work in which they are engaged.

MACKENZIE. (Open March 1920.)

Founded in 1878, by William Mackenzie. Four Bursaries: each about £12 for 1 year.

The Bursaries are open to Students of the Anatomy Classes, of any year, who shall display the greatest industry and skill in Practical Anatomy during the Winter Session. See CALENDAR for 1879-80, p. 353.

1918, THOMAS FERGUSON, W. M. B. ROSSIE.

1919, JOHN CAMPBELL, ROBERT CARMICHAEL, WM. A. SIMPSON,
JAMES THOMSON.

MACKIE. (Open 1919-20.)

Founded in 1873, by Trustees of Dr Mackie, Leith. Two Bursaries: each about £31 a year, for 2 years.

These Bursaries are awarded to Students of Medicine of the University, one being open to Students who have completed their first *annus medicus*, and the other to Students who have completed their second *annus medicus*, and who are, in the opinion of the Faculty of Medicine, in such pecuniary circumstances as to require assistance. In the event of no appointment having been made to either Bursary on any occasion when it is vacant, the Senatus may, on the recommendation of the Faculty of Medicine, appoint any candidate to the vacant Bursary who has completed either his first or his second *annus medicus* and who otherwise satisfies the requirements of tenure. The Bursaries may be awarded in 1919-20.

1914 (*Third Year*), ROBERT M'GARROLL.

THOMSON. (Open Sept. 1919.)

Founded in 1878, by Dr Andrew Thomson. Four Bursaries: each £25 a year, for 4 years. Patrons, Dr Thomson's Trustees.

One Bursary is awarded annually at the Preliminary Examination held in Autumn, and one at the examination held in Spring, to the candidate who, being about to commence his Curriculum, takes the highest place in the Medical Preliminary Examination: provided (1) that he has not already passed the said Preliminary Examination; and (2) that, in the event of his having passed an equivalent examination and presenting himself for the Medical Preliminary Examination, he shall waive all right to admission

to the Faculty of Medicine except through the ordinary Medical Preliminary Examination of this University. Students of the name of Thomson or Traquair, or those who are natives of the town or county of Dumfries, or of the city of Edinburgh, have a preference. Women are not eligible for the Bursaries. Candidates must enter for the Preliminary Examination in Autumn or Spring; and they must intimate their names to Messrs Traquair, Dickson & McLaren, W.S., 11 Hill Street, Edinburgh, the agents for the Trust (from whom further particulars may be obtained), not later than 25th August or 24th February.

1914, JOHN A. THOMSON.

1915, DAVID G. A. STEWART.

1916, KENNETH R. BROWN.

1918, GEO. H. THOMSON.

WHITESIDE BRUCE. (Open July 1920.)

Founded in 1912, by John Bruce, M.B., C.M., of Kirkwall. One Bursary: about £44, for 1 year.

This Bursary will be awarded in July of each year to the student of Medicine who has commenced the study of Medicine in the Summer or Winter Session of the preceding year, and who has obtained the highest number of marks in the class examinations in Chemistry, Physics, Botany, and Zoology, provided that these classes have been attended in the University, and attendance thereon has not extended over a longer period than a Winter and a Summer Session.

1918, JESSIE EELES.

WOOD.

Founded in 1895, by Dr Alexander Wood. One Bursary: £60 a year, for 3 years. Patrons, the Royal College of Physicians, Edinburgh.

The Bursary, which is tenable at the Edinburgh Medical School, either intra or extra-mural, is open to all students, male or female, who, within the previous twelve months, have passed the subjects of the Preliminary Medical Examination qualifying for registration as medical students. The subjects of examination are Latin, Greek, Mathematics, and English, in which high proficiency must be attained. The next Examination for the Bursary will be held in October 1920. Apply to the Secretary, Royal College of Physicians.

The following ARTS BURSARIES are also tenable in the Faculty of Medicine (see CALENDAR for dates when open):—

Allan.
Baxter of Balgavies.
Border Counties.
Campbell.
Chrystie.
Fraser (Thomas).
Glenbuck.
Grant.
Heriot.
Jamieson.

Lanarkshire.
Macdonald.
MacLaurin.
Maule.
Morayshire Club.
Peeblesshire.
Renton.
Sibbald.
Strang Steel.

III. Prizes and Medals in the Faculty of Medicine.

(ARRANGED ALPHABETICALLY.)

Note.—The values are stated *approximately*: the accuracy of the figures is not guaranteed.

ANDERSON HENRY PRIZE.

The Prize was founded by Isaac Anderson Henry of Woodend, and is of the value of about £30. It is awarded for the best and approved essay on a botanical subject proposed by the Professor of Botany, the Curator of the Royal Botanic Garden, and the President of the Botanical Society of Edinburgh, for competition to students in the Class of Botany in the University of Edinburgh, during any of the three years preceding the date of the award. The next award may be made in July 1919. Competing Essays to be sent to the Dean of the Faculty of Medicine on or before 6th June.

ANNANDALE GOLD MEDAL IN CLINICAL SURGERY.

(Open July 1920.)

This Medal will be awarded annually at the Summer Graduation Ceremonial in Medicine. It shall be conferred on the student who shall be adjudged by the Professor of Clinical Surgery, and his co-examiners in Clinical Surgery, to be the most distinguished candidate in the Department of Clinical Surgery for the Degrees of Bachelor of Medicine and Bachelor of Surgery, who, having attended the necessary qualifying course in Clinical Surgery, graduates, or is entitled to graduate, at the above-mentioned Ceremonial.

1919, ALICE BLOOMFIELD, M.B., Ch.B.

ARNOTT (NEIL) PRIZE FOR EXPERIMENTAL PHYSICS.

(Open Oct. 1919.)

This Prize, of the value of about £59, presented to the University by Dr Neil Arnott of London, is awarded annually in October to the candidate who shall pass with the greatest distinction the Ordinary Examination in Natural Philosophy for the Degree of M.A., with such additional Examination in Experimental Physics as the Examiners may require. Candidates must have been Students of Medicine of this University during either a Summer or a Winter Session; and the successful candidate must continue to be a Student of Medicine at this University during the next Winter Session, failing which, the Prize will be forfeited and assigned to the competitor next in merit. No student can appear for examination after the completion of his third *annus medicus*; and no candidate shall be allowed to offer himself more than once.

In the event of a competitor, qualified as above, not coming forward, the Prize will be awarded to a candidate for a Degree in Arts who shall

pass with most distinction the ordinary examination in Natural Philosophy. Names of candidates to be entered at the Matriculation Office, on or before 20th September. See Deed of Foundation at p. 274 of CALENDAR for 1870-71.

BEANEY PRIZE. (Open July 1920.)

This Prize, of about £49, was founded in 1878 by James George Beane, Esq., of Melbourne. It is awarded at the Graduation Ceremonial in Medicine to the Graduate in Medicine and Surgery of the year who, having attended within the University courses on Anatomy, Surgery, and Clinical Surgery qualifying for Graduation, obtains the highest number of marks during his examinations in these subjects for the Degrees of Bachelor of Medicine and Bachelor of Surgery. The Senatus has the power of withholding the Prize in the event of no Student passing the above examinations with sufficient merit. See Deed of Foundation at p. 371 of CALENDAR for 1878-9.

1918, J. K. VAN OOSTERZEE DUMINY, M.B., Ch.B.

1919, RAYMOND L. LANGLEY, M.A., M.B., Ch.B.

BRUNTON. See **Lauder Brunton.**

CAMERON PRIZE. (May be awarded in 1920.)

This Prize was founded in 1878 by the late Dr Andrew Robertson Cameron, of Richmond, New South Wales, with a sum of £2000. The regulations were remodelled by the Educational Endowments (Scotland) Commission, and the annual proceeds, which, after defraying the necessary expenses, amount to about £150, may be awarded annually to a person who, in the course of the five years immediately preceding, has made any highly important and valuable addition to Practical Therapeutics. It shall be in the power of the Senatus to require the person to whom the Prize is to be awarded, as a condition of his receiving it, to deliver a lecture or course of lectures on the addition to Practical Therapeutics so made by him, or to publish an account of such addition in such manner as the Senatus may prescribe. The Prize will not be awarded if, in the opinion of the Senatus, no addition to Practical Therapeutics has been made within the said period of five years of sufficient importance and value to justify the awarding of the Prize. The Prize is awarded at the Graduation Ceremonial in July. See Remodelled Regulations, p. 497 of CALENDAR for 1888-89.

1889, MONSIEUR PASTEUR; 1890, SIR JOSEPH LISTER, Bart.; 1891, PROFESSOR DAVID FERRIER; 1893, PROFESSOR V. A. H. HORSLEY; 1895, PROFESSOR BEHRING; 1896, PROFESSOR MACEWEN; 1897, PROFESSOR THOMAS R. FRASER; 1898, DR SYDNEY MONCKTON COPEMAN; 1899, MAJOR DAVID BRUCE, R.A.M.C.; 1900, W. M. HAFFKENE, C.I.E.; 1901, PATRICK MANSON, C.M.G.; 1902, MAJOR RONALD ROSS, C.B.; 1904, PROFESSOR NIELS R. FINSEN; 1910, PROFESSOR AUGUST BIER; 1911, DR SIMON FLEXNER, New York; 1914, PROFESSOR PAUL EHRLICH; 1915, SIR LAUDER BRUNTON, Bart., M.D.

CHIENE MEDAL IN SURGERY. (Open July 1920.)

This Medal, together with a Money Prize of about £10, will be awarded annually to the graduate who, in the opinion of the Examiners, passes the best examination for the degree of Ch.M., the thesis not to be considered part of the examination. The award will be made only when two or more candidates present themselves for the examination in any one year.

CONAN DOYLE PRIZE. (Open July 1920.)

The Conan Doyle Prize, of about £49, is awarded annually at the Graduation Ceremonial to the most distinguished Graduate (M.B., Ch.B.) from South Africa, as determined by the marks obtained at the various Professional Examinations. A minimum residence of ten years in South Africa is required to qualify for this Prize. The Prizeman shall be free to receive any other Prize, Scholarship, or Fellowship which may be awarded to him.

1918, HARRY M. JACOBS, M.B., Ch.B.

1919, MORRIS GOLDBERG, M.B., Ch.B.

CUNNINGHAM MEMORIAL MEDAL IN ANATOMY.

(Open July 1920.)

The Medal and a Money Prize of about £6 shall be awarded at the Medical Graduation Ceremonial in July of each year to the student who, having passed in Anatomy of the Second Professional Examination in Spring or in Summer of that year, and who has for five consecutive terms immediately preceding the date of passing been a member of the University Class of Practical Anatomy, shall be considered by the Faculty of Medicine to be the most distinguished student of his year in the subject of Anatomy.

1918, R. G. M'INTYRE.

1919, J. R. M'DONALD.

DOBBIE SMITH PRIZE IN BOTANY. (Open July 1920.)

This Prize, which consists of a Gold Medal, is open to competition each alternate year to all Matriculated Students of the year of the award, for an Essay on a Botanical subject. The subject of the next competition is an original investigation "On the Structure, Development, and Life History of any British Flowering Plant"; and the memoir is to be accompanied by a series of illustrative specimens. Open July 1920. Competing Essays to be sent to the Dean of the Faculty of Medicine, on or before 6th June.

ELLIS PRIZE IN PHYSIOLOGY. (Open 1920.)

This Prize, bequeathed by the late Daniel Ellis, Esq., to the Principal and Faculty of Medicine of the University of Edinburgh, consists of about £100. It is awarded for the best Essay or Treatise on some subject of Animal or Vegetable Physiology proposed by the Faculty for competition to Students or Graduates of not more than five years' standing. The next competition may be in 1920. Essays to be lodged by 31st March.

1913, WILLIAM EWART BULLOCK, B.Sc., M.D.

GILFILLAN MEMORIAL PRIZE. (Open July 1920.)

The capital of this Prize, £217, 16s., was subscribed by women students, and the balance, £132, 4s., by Mr Samuel Gilfillan, in memory of the late Miss Dorothy Gilfillan, M.B., Ch.B. The Prize is of the value of about £17, and is awarded annually at the Graduation Ceremonial in July, to the most distinguished woman student at the Final Examination for the Degrees of M.B., Ch.B.

1918, JOYCE C. B. MITCHELL, M.B., Ch.B.

1919, ALICE BLOOMFIELD, M.B., Ch.B.

GRAY ESSAY PRIZES. See Faculty of Arts.**GUNNING VICTORIA JUBILEE PRIZES.**

(Four Prizes, open July 1920.)

Dr Gunning, of Edinburgh and Rio de Janeiro, has founded Twelve Post-Graduation Prizes of the value of £50 each, viz. :—(1) The Monro prize for Anatomy; (2) The Bell prize for Physiology; (3) The Edward Forbes prize for Zoology, etc.; (4) The Hutton Balfour prize for Botany; (5) The Joseph Black prize for Chemistry; (6) The Christison prize for Materia Medica; (7) The Lister prize for Surgery; (8) The Gregory prize for Practice of Physic; (9) The John Thomson prize for Pathology; (10) The Simpson prize for Obstetrics; (11) The Alison prize for Forensic Medicine; (12) For Public Health. Candidates must be either Bachelors of Medicine or Bachelors of Science of this University, of not more than three years' standing. The prizes will be awarded with the approval of the Senatus for (1st) either (a) Competitive Essays written specially for the prizes, or (b) Theses submitted for Graduation; or (2nd) for original research conducted under supervision of the Professor in the department in which the prize is awarded. Four prizes will be awarded annually in the following rotation, viz. :—Botany, Anatomy, Medicine, Public Health, Zoology, Physiology, Pathology, Surgery, Chemistry, Materia Medica, Forensic Medicine, Obstetrics. (The prizes in Chemistry, Materia Medica, Forensic Medicine, and Obstetrics will be open in 1920.) Competitive Essays are required to be lodged with the Dean of the Faculty of Medicine on or before 31st March of the year in which each prize is to be awarded, and the successful competitors will be announced annually at the Summer Graduation Ceremonial in Medicine.

LAUDER BRUNTON PRIZE IN PHARMACOLOGY AND THERAPEUTICS.

This Prize, founded by the late Sir Lauder Brunton, Bart., M.D., F.R.S., being the proceeds of an endowment of £100, is for the furtherance of study and research in Pharmacology and Therapeutics. The Prize consists of a Medal, with a portrait representation of the donor, and a sum of money. It is open to senior students of Medicine, and to Graduates of Medicine of not more than five years' standing, of the University of Edinburgh. No award of the Prize shall be made sooner than two years after the termination of the War. See Deed of Foundation, CALENDAR 1917-18, p. 806.

LESLIE GOLD MEDAL IN MEDICINE. (Open July 1920.)

This Medal has been endowed by Dr Robert Murray Leslie, London, a former Ettles scholar, in connection with the Ettles Scholarship, in honour and memory of his mother: to be known as the Leslie Gold Medal in Medicine, and to be awarded annually to the most distinguished student of the year in Medicine.

1919, RAYMOND L. LANGLEY, M.A., M.B., Ch.B.

LORD RECTOR'S PRIZE. See Faculty of Arts.

MILNER FOTHERGILL MEDAL IN THERAPEUTICS.

(Open July 1920.)

This Medal, of the value of about £20, is awarded biennially. It is open for competition to Graduates in Medicine of the University, who have been members of the Class of Materia Medica in the University, for the best essay which shall include a description of original research made by the candidate on a Pharmacological or Therapeutic subject, preference being given to a subject relating to Dietetics. See Deed of Foundation, p. 542 of CALENDAR for 1891-92. The next award may be made at the Graduation Ceremonial in July 1920. Essays to be lodged with the Professor of Materia Medica, on or before 31st March 1920.

PATTISON PRIZE IN CLINICAL SURGERY.

(Open July 1920.)

This Prize, of about £19, is awarded annually at the Graduation Ceremonial in July for the best report and commentary on not more than six cases treated in the general Surgical Wards of the University Professors and Lecturers in the Royal Infirmary during the time the writer is a member of the class of Clinical Surgery. Candidates are reminded that the permission of the Surgeon of the Ward must be obtained before any case under his charge is made use of, and that this permission does not authorise the publication of the case. Essays must be lodged with the Dean of the Faculty of Medicine on or before 6th June.

1918, ROBERT L. GALLOWAY.

1919, JAMES L. WILSON, M.B., Ch.B.

PRIZE FOR WOMEN STUDENTS OF MEDICINE.

(Open July 1920.)

This Prize, of about £12, has been endowed from the balance left over on the winding-up of the Scottish Association for the Medical Education of Women. It will be awarded annually to the Bachelor of Medicine and Bachelor of Surgery of the University of Edinburgh whom the Faculty of Medicine may consider the most distinguished woman Student of that year.

1918, MARGUERITE R. STIRLING, M.B., Ch.B.

1919, ALICE BLOOMFIELD, M.B., Ch.B.

STRAITS SETTLEMENTS GOLD MEDAL.

(May be open July 1920.)

A Gold Medal, subscribed for by former Scottish students resident in the Straits Settlements, may be awarded at the Graduation Ceremonial in July 1921. The Medal may be awarded to the writer of the best thesis on a tropical subject, lodged during the years 1919, 1920, and 1921.

THESES GOLD MEDALS. (Awarded July 1920.)

Gold Medals, each of the value of £10, may be awarded annually on the day of graduation to Doctors of Medicine whose theses are deemed worthy of that honour.

WELLCOME MEDALS. (May be open July 1920.)

A Gold Medal and a sum of £10, and a Silver Medal and a sum of £5, will be open for competition annually. The competition shall be by essays upon a subject relating to the History of Medicine, and shall be open to students and graduates who have attended the University class of the History of Medicine, within a period of five years preceding the date of award. The subject of the essay for each year shall be fixed by the Lecturer, with the approval of the Faculty of Medicine, and shall be one admitting of original research in the History of Medicine. The prize essays shall become the property of the University, and may be published in such manner as the Faculty of Medicine shall deem expedient. Essays to be lodged with the Dean of the Faculty of Medicine, on or before 1st May.

WIGHTMAN PRIZE IN CLINICAL MEDICINE.

(Open July 1920.)

This Prize, of about £27, was founded by Mrs E. Wightman, in memory of her son, J. T. Wightman, M.B., C.M., and is awarded annually at the Graduation Ceremonial in July for the best report and commentary on not more than six cases treated in the general Medical Wards of the University Professors and Lecturers in the Royal Infirmary during the time the writer is a member of the class of Clinical Medicine. See Deed of Foundation, p. 343 of the Calendar for 1876-77. Candidates are reminded that the permission of the Physician of the Ward must be obtained before any case under his charge is made use of, and that this permission does not authorise the publication of the case. Essays must be lodged with the Dean of the Faculty of Medicine on or before 6th June.

WILSON (ROBERT) MEMORIAL PRIZE.

(Open March 1920.)

This Prize was founded by John Wilson of South Bantaskine, in memory of his son, Robert Wilson, and is of the value of about £10. in money and a silver medal. It is annually awarded at the close of the Winter Session to the student in the Medical Chemistry Class who obtains

REGULATIONS FOR FELLOWSHIPS, ETC.

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the highest number of marks in class examinations. See Deed of Foundation at p. 351 of CALENDAR for 1876-77.

1918, JESSIE Eeles.

1919, DAVID GRIEVE.

REGULATIONS AS TO CANDIDATURE FOR, AND TENURE OF FELLOWSHIPS, SCHOLARSHIPS, BURSARIES, ETC.

Competitors for Fellowships, Scholarships, and Bursaries, excepting those awarded for the subjects of Preliminary Examination, must have studied the subjects of Examination at the University of Edinburgh. No Fellowship, Scholarship, or Bursary, with the exception of the Freeland Barbour Fellowship, Ettles and Murchison Scholarships, and Mackenzie Bursaries, can be held along with any other Fellowship, Scholarship, or Bursary.

All holders of undergraduate Fellowships, Scholarships, and Bursaries in the Faculty of Medicine must annually attend at least two of the classes necessary for the degrees of M.B. and Ch.B., and must present themselves for the several examinations necessary for these degrees at the proper periods in the curriculum.

Holders of Fellowships, Scholarships, or other pecuniary awards, implying original research on the part of the holder, are not allowed to assume any other office, but must devote their whole time to the research authorised by the Senatus.

Each Fellow, Scholar, Bursar, or Prizeman, when he applies to the Factor for payment, must produce a Certificate signed by the Dean, attesting his regular attendance on the proper classes, etc., or otherwise that he has fulfilled the conditions attached to the Foundation.

Certificates, in terms of this regulation, will be given to Bursars, by the Dean of the Faculty of Medicine, on and after 13th November 1919, and 14th May 1920. In applying to the Dean for the Certificate, Bursars must present their Class Cards for the Session, and also all Class Certificates and Honours Certificates obtained since the last payment. All holders of Research Fellowships and Scholarships must present certificates regarding their work, from the head of the Department in which it has been conducted. Payments are made by the University Factor, Sir Henry Cook, W.S., 61 Castle Street, Edinburgh, on and after 15th November, for the Martinmas payments, and on and after 19th May, for the Whitsunday payments,—between 10 and 3 o'clock.

N.B.—Bursars, Scholars, and Fellows who desire to resign should at once announce this to the Dean and to the Factor. They must apply to the Factor for the instalments due to them within three months after they have become payable, otherwise they will be regarded as having resigned.

DIPLOMA IN TROPICAL MEDICINE AND HYGIENE.

(D.T.M. & H.).

THE Diploma in Tropical Medicine and Hygiene was instituted in the year 1905.

The course of study may be taken wholly at the University, or, as the regulations indicate, certain of the classes may be taken with teachers who have been recognised by the University Court, or at a recognised school of Tropical Medicine.

Candidates who have been engaged in the treatment of Tropical Diseases in any tropical or sub-tropical country may be exempted from attendance on the course of Clinical Instruction in Tropical Diseases.

The courses may most conveniently be taken at the two periods of the year, October to December and April to June.

The examinations are held in December and June, and the Diploma is awarded to successful candidates at the graduation ceremonies at the close of the above sessions.

Any further information may be obtained from the Dean of the Faculty of Medicine, University of Edinburgh.

REGULATIONS FOR THE DIPLOMA.

1. The University shall grant a Diploma in Tropical Medicine and Hygiene to Graduates in Medicine and Surgery of the University, and to registered practitioners in Medicine who have resided abroad and acquired practical experience in Tropical Diseases, and who, on the recommendation of the Faculty of Medicine, receive the permission of the Senatus Academicus to become Candidates for the Diploma, and afterwards fulfil the regulations pertaining thereto.

2. No Candidate shall be admitted to examination for this Diploma until a period of at least six months has elapsed since the degrees in Medicine and Surgery had been obtained.

3. There shall be two periods of examination in each year, one in December and the other in June; and no Candidate shall be eligible who is not Matriculated for the year.

4. Before admission to examination, the Candidate must present evidence satisfactory to the Faculty of Medicine of having attended courses of instruction of not less than three months' duration in each of the following:—(1) Bacteriology (with special relation to the pathogenic micro-organisms of tropical diseases and their cultivation, the preparation of culture media, and the examination of blood), (2) Diseases of Tropical Climates (including parasitic tropical diseases and poisoned weapons), and (3) Tropical Hygiene (including general and personal sanitation and practical laboratory work in the examination of water, food, and beverages, and in the application of disinfectants); of having attended, during at least one month, a practical course of instruction on the zoological characters and life-history of disease-carrying insects, disease-producing protozoa, and venomous animals; and of having attended, during a period of at least six months, a course of Clinical instruction in Tropical Diseases in a hospital or hospitals receiving patients suffering from these diseases, of which at least three months must be taken after graduation in Medicine and Surgery.

5. Provision shall be made in the University for instruction in the above subjects, but any two of them may be taken under Extra-Academical Teachers, recognised for the purpose by the University Court; and it shall also be competent for the Faculty of Medicine to exempt any Candidate from attendance on the last-mentioned course of instruction who has been engaged for a period of at least twelve months in the treatment of Tropical Diseases in any tropical or sub-tropical country.

6. Candidates shall also be required to produce certificates of proficiency in the making of post-mortem examinations, and in the preparing of reports on them.¹

¹ In Edinburgh, opportunities for fulfilling these conditions are best obtained during the Christmas, Spring, and Autumn vacations.

The following form of certificate is recommended:—

"I hereby certify that, in.....M.....has, under my supervision, made *post-mortem* examinations and prepared reports on them, during.....19...., and that.....has acquired proficiency in the method of making *post-mortem* examinations, and in the preparing of reports on them.

.....
Pathologist."

7. No certificate of instruction shall be accepted which does not bear that the Candidate not only attended the course of instruction with regularity, but also performed the work of the course in a meritorious manner.

8. The examinations shall be written, oral, and practical, and shall be on the above subjects of instruction; and the Examiners shall be the Professors of Pathology, Bacteriology, Public Health, and Medicine, and other University Teachers of the subjects, together with the additional Examiners in Pathology, Public Health Laboratory Work, and the Professors of Clinical Medicine.

9. Candidates shall appear for all the subjects of examination on the first occasion of presenting themselves for examination, and any Candidates who fail to pass the entire examination within a period of twelve months after a first appearance, shall be required to reappear for all the subjects on again presenting themselves for examination.

10. If any Candidate fail to pass in any part or parts of the examination, it shall be competent for the Faculty of Medicine, on the recommendation of the Examiners, to require the Candidate again to attend any course or courses of instruction before being readmitted to examination.

For COURSES OF INSTRUCTION for Diploma in Tropical Medicine and Hygiene, see earlier section, beginning page 553.

PROGRAMME OF CLASSES

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PROGRAMME OF CLASSES.

AUTUMN AND SPRING TERMS, 1919-20.

CLASSES.	Days of Opening and Hours of Lectures.	Professors and Lecturers.	Class Fees.
Diseases of Tropical Climates	14 Oct., 2 p.m.	{ Lt.-Col. D. G. Marshall, M.B., I.M.S. }	£2 2 0
Senior Bacteriology (<i>Wednesday, Thursday, and Friday</i>)	Jan., 4 p.m.	{ Professor Ritchie and Assist- ants }	3 3 0
Tropical Hygiene (<i>Monday and Tuesday</i>)	14 Oct., 3 p.m.	{ Professor Hunter Stewart and J. B. Young, M.B., D.Sc. (P.H.) }	3 3 0
Medical Entomology and Protozoology	14 Oct.,	Professor Ashworth.	2 2 0 ²

SUMMER TERM, 1920.

Diseases of Tropical Climates	20 Apr., 2 p.m.	{ Lt.-Col. D. G. Marshall, M.B., I.M.S. }	£2 2 0
Tropical Hygiene (<i>Monday and Tuesday</i>)	20 Apr., 3 p.m.	{ Professor Hunter Stewart and J. B. Young, M.B., D.Sc. (P.H.) }	3 3 0
Medical Entomology and Protozoology ¹		Professor Ashworth.	2 2 0 ²

¹ May not be held in 1920.

² Fee for Officers of the Colonial Services, £2, 2s., including the Fee for Matriculation.

FEES FOR EXAMINATION.*(For the first and any subsequent appearance.)*

Bacteriology	£1 1 0
Diseases of Tropical Climates	1 1 0
Medical Entomology and Protozoology	1 1 0
Tropical Hygiene	1 1 0
Tropical Clinical Medicine	1 1 0
	<hr/>
	<u>£5 5 0</u>

TIME-TABLE OF EXAMINATIONS, ETC.

1919.

Nov. 19. Wed. Names to be entered and Fees paid *on or before* this date. After this date a late entry fee of 10s. will be charged.

Examinations.*Days and hours to be arranged.*

1920.

June 10. Th. Names to be entered and Fees paid *on or before* this date. After this date a late entry fee of 10s. will be charged.

Examinations.*Days and hours to be arranged.*

REGULATIONS FOR THE DIPLOMA IN PSYCHIATRY.

The Faculty of Medicine being of opinion that the study of Mental Diseases or Psychiatry has become during recent years a specialised branch of Medicine, the University has decided to institute a Diploma in Psychiatry (Dipl. Psych. Edin.).

The Faculty of Medicine anticipate that the Diploma will fulfil the requirements of those who intend to devote themselves to this branch of Medicine, and will promote the advance of Scientific investigation.

By a recent Medical Ordinance the University has obtained power to confer Diplomas upon any registered practitioner of Medicine, in addition to its own graduates, and the Diploma in Psychiatry is, therefore, open to any registered medical practitioner who conforms with the Regulations.

The course of study extends over one academic year, consisting of three terms.

In the Autumn and Spring Terms, commencing in October, the courses of instruction consist of Anatomy of the Nervous System; Physiology, Histology, and Chemistry of the Nervous System; Pathology of the Brain and Nervous System; Senior Bacteriology; and Clinical Psychiatry. In the Summer Term, commencing in April: Psychiatry, Systematic and Clinical; Psychology, including Experimental Psychology; Clinical Neurology; and Advanced Bacteriology in its relation to Mental Diseases.

There will be two examination periods in the year, viz., in March and in July, and no candidate will be allowed to proceed to the second examination until he has passed the first examination.

The Diploma will be conferred at the Graduation Ceremony in July.

The following are the Regulations which have been approved by the University Court :—

I. The Diploma (subject to the provisions of Section V. hereof) shall be granted to legally qualified Medical Practitioners who shall have pursued the prescribed course of study for the Diploma in the University of Edinburgh, and who shall have complied with all the requirements with respect to examinations herein contained.

II. Candidates shall, subsequent to the date of their graduation or of obtaining a registrable qualification, have attended the following courses of instruction :—

- (1) Anatomy of the Nervous System. Ten meetings of two hours each, during which the human brain shall twice be dissected. Class Fee, £1, 1s.
 - (2) Physiology, Histology, and Chemistry of the Nervous System. Thirty meetings each of two hours' duration. Class Fee, £3, 3s.
 - (3) Pathology, macroscopical and microscopical, of the Brain and Nervous System, including the making of sections and the staining and mounting of morbid specimens, in a course of twenty meetings. Class Fee, £1, 1s.
 - (4) Bacteriology. Candidates must attend both Senior and Advanced Bacteriology. Each course extends over one term. In the Advanced Class, special attention will be directed towards the bearings of Bacteriology on Mental Diseases. Fee for each Course, £3, 3s.
 - (5) Psychology, including Experimental Psychology, in a course of from twenty-five to thirty hours' instruction, extending over a period of about ten weeks' duration. Class Fee, £2, 2s.
 - (6) Clinical Neurology in a course of ten meetings, supplementary to the instruction given in the ordinary courses of Clinical Medicine. Class Fee, £1, 1s.
 - (7) Psychiatry in a course of ten hours, supplementary to the course in Mental Diseases now required for the degree of M.B., or to a similar course. Class Fee, £1, 1s.
 - (8) Clinical Psychiatry in a course of about six months' duration in an approved Hospital or other institution for the treatment of Mental disorders, in which instruction is given on at least three days in each week ; or a course of three months' duration along with a resident medical appointment for three months. The holding for six months of a resident medical appointment in a Hospital for Mental disorders, with attendance on the clinical instruction (if not already obtained), will be regarded as equivalent to either of the above requirements. Class Fee—Six Months' Course, £3, 3s. ; Three Months' Course, £2, 2s.
- III. (1) Of the foregoing eight courses of instruction not less than five must be attended in the University of Edinburgh. The remainder may be taken in other Universities, or with extra-academical teachers recognised for the purpose by the University Court.
- (2) The fee for attendance on courses of instruction of recognised extra-academical teachers in Edinburgh shall not be less in amount than the fee for the corresponding courses in the University.

- (3) The University Court may, if they see cause, withdraw or suspend any Recognition which they may have granted.
 - (4) Candidates shall not be deemed to have attended a course of instruction for the purposes of the Diploma who do not present certificates bearing not only that they have regularly attended the course, but also that they have satisfactorily performed the work thereof.
- IV. (1) There shall be two examinations for the Diploma, namely, one at the end of the Winter Session, comprising the subjects of Anatomy of the Nervous System; Physiology, Histology and Chemistry of the Nervous System; Pathology of the Brain and Nervous System; and Practical Bacteriology in its relation to Mental Diseases; and the other at the end of the Summer Session, comprising the subjects of Psychology with Experimental Psychology, Clinical Neurology, and Psychiatry (systematic and clinical).
- (2) No candidate shall be admitted to the second examination until he has passed in all the subjects of the first examination.
 - (3) The fee for each examination shall be £5, 5s. In the event of a candidate being rejected in any subject or subjects the fee for re-examination in each subject shall be £1, 1s.
 - (4) Candidates for examination who are not matriculated students of the year in which the examination takes place shall pay a fee equal in amount to the matriculation fee exigible for the academical year.

PROGRAMME OF CLASSES.

AUTUMN AND SPRING TERMS, 1919-1920.

Note.—Further information regarding the Courses is given on the pages stated in the last column of the Table.

CLASSES.	Days of Opening, and Days and Hours of Meetings of Classes.	Professors and Lecturers.	Class Fees.	See also page
Anatomy of the Nervous System . . .	Oct.,	{ Professor Robinson and De- monstrators . . . }	£1 1 0	558
Physiology of the Nervous System ¹ . . .	Oct.,	{ Prof. Sir E. Sharpey Schafer, Dr Ninian Bruce, Dr Taylor }	3 3 0	560
Pathology of the Brain and Nervous System. {	Dates to be arranged by teachers and candidates	{ Asylum Superintendents re- cognised for the purpose by the University Court . }	1 1 0	
Senior Bacteriology (<i>Wednesday, Thursday, and Friday</i>) . . .	Jan., 4 p.m.	Professor Ritchie . . .	3 3 0	563
Clinical Psychiatry . . .	Oct., 10 a.m.	{ Professor Robertson, Super- intendent, Royal Mental Hospital, Morningside . }	3 3 0 ² 2 2 0 ²	
Clinical Neurology . . .	...		1 1 0	577

¹ Hours will be arranged to suit Students.

² Six months' course.

³ Three months' course.

SUMMER TERM, 1920.

CLASSES.	Days of Opening, and Days and Hours of Meetings of Classes.	Professors and Lecturers.	Class Fees.	See also page
Psychiatry Lectures (<i>Monday, Wednesday, and Friday</i>)	Apr., 3 p.m.	Professor Robertson	£1 1 0 ¹	574
Psychology, including Experimental Psych- ology (<i>Wednesday and Friday</i>)	Apr., 10 a.m.	Dr Drever	2 2 0	580
Clinical Psychiatry (<i>Monday, Tuesday, and Thursday</i>)	Apr., 10 a.m.	{ Professor Robertson, Super- intendent, Royal Mental Hospital, Morningside . . . }	3 3 0 ² 2 2 0 ³	
Clinical Neurology . . . . .	...	Professor Ritchie	1 1 0	577
Advanced Bacteriology	Apr.,		3 3 0	

1 Or with course on Mental Diseases, £3, 8s.

2 Six months' course.

3 Three months' course

FEES FOR EXAMINATION.

<i>First Examination</i> , in Anatomy, Physiology, Pathology, and Bacteriology	£5 5 0
<i>Second Examination</i> , in Psychology (including Experimental Psychology), Clinical Neurology and Psychiatry (systematic and clinical)	5 5 0
	<hr/>
	£10 10 0
	<hr/>
<i>For re-appearance</i> —each subject	£1 1 0

TIME-TABLE OF EXAMINATIONS.

1920.

March 1. Mon. Names to be entered, and Fees paid, on or before
this date.

Days and hours of examinations to be arranged.

June 10. Th. Names to be entered, and Fees paid, on or before
this date.

Days and hours of examinations to be arranged.

For COURSES OF INSTRUCTION for Diploma in Psychiatry, see earlier
section, beginning page 647.

DIPLOMA IN PUBLIC HEALTH.

(D.P.H. Univ. Edin.)

THE Diploma in Public Health was instituted in the year 1919.

Candidates for the Diploma must comply with the general conditions relating to Diplomas in Public Health laid down by the General Medical Council.

Any further information may be obtained from the Dean of the Faculty of Medicine, University of Edinburgh.

REGULATIONS FOR THE DIPLOMA.

A Diploma in Public Health is granted by the University of Edinburgh (D.P.H. Univ. Edin.).

Candidates for the Diploma must be graduates in Medicine and Surgery of the University of Edinburgh, or hold corresponding degrees or registrable qualifications of some other licensing body.

The course of study extends over one academic year, consisting of three terms.

In the Autumn and Spring terms, commencing in October, the Courses of Instruction consist of (1) Chemical Laboratory Work and Meteorology as applied to Public Health; (2) Sanitary Engineering; (3) Lectures on Advanced Public Health; (4) Bacteriology. In the Summer term, commencing in April:—(1) Administration of Infectious Diseases Hospital, including the recognition of Infectious Diseases; (2) Duties and Practical Work of a Medical Officer of Health; (3) Entomology and Parasitology, including diseases transmissible to man; (4) Tuberculosis, Clinical and Administrative; (5) Venereal Diseases, Clinical and Administrative; (6) Demonstration Course on Medical Inspection of School Children; (7) Demonstration Course on Infant Welfare.

There are two examinations for the Diploma. The examinations are held twice yearly, the *first* examination in March and July; the *second* examination in July and December.

Candidates shall not be admitted to the second examination for the Diploma until they have passed the first examination.

The following are the requirements in regard to the subjects of study, viz. :—

- (1) Chemical Laboratory Work and Meteorology as applied to Public Health, four hours per day; 200 hours.
- (2) Sanitary Engineering; 30 hours.
- (3) Lectures on Advanced Public Health, three days per week; 30 hours.
- (4) Bacteriology, three days per week; 120 hours.
- (5) Administration of Infectious Diseases Hospital, including the recognition of Infectious Diseases, two days per week; 20 hours.
- (6) Duties and Practical Work of a Medical Officer of Health, three days per week; 60 hours during three months.
- (7) Entomology and Parasitology, including diseases transmissible to man; about 80 hours.
- (8) Tuberculosis, Clinical and Administrative, one day per week; 15 hours.
- (9) Venereal Diseases, Clinical and Administrative; 15 hours.
- (10) Demonstration Course on Medical Inspection of School Children, by School Medical Officer, one day per week; 10 hours.
- (11) Demonstration Course on Infant Welfare, one day per week; 10 hours.

Provision is made by the University for instruction in the above subjects, and Candidates must study for at least two of the three terms in the University. One term may be taken under Extra-Academical teachers, recognised for the purpose by the University Court.

The fee for attendance on Courses of Instruction of recognised Extra-Academical teachers in Edinburgh shall not be less in amount than the fee for the corresponding Courses in the University.

Candidates shall not be deemed to have attended a Course of Instruction for the purposes of the Diploma who do not present certificates bearing not only that they have regularly attended the Course during the specified number of hours, but also that they have performed the work thereof in a meritorious manner.

The subjects of the first examination are :—

- (1) Chemical Laboratory Work and Meteorology (Oral and Practical).
- (2) Bacteriology (Oral and Practical).

Candidates must pass in the subjects of the first examination at the same time.

The subjects of the second examination are :—

- (1) Sanitation, Epidemiology, and Infectious Diseases (Written and Oral).
- (2) Sanitary Law and Vital Statistics (Written and Oral).
- (3) Entomology and Parasitology (Oral and Practical).
- (4) Public Health Administrative Work. The examination in Public Health Administrative Work shall include reports by the candidates on dwellings, workshops, hospitals, and sanitary schemes generally.

The fee for each examination shall be £6, 6s., and for re-appearance in each examination £3, 3s. In the event of a candidate being rejected in any one subject only of the second examination, he may, by special permission of the Faculty, be admitted to re-examination in that subject on the payment of a fee of £2, 2s.

Candidates must be matriculated for the year in which they appear for examination.

FEEES FOR EXAMINATION.

First Examination	.	.	.	.	.	.	£6	6	0
Second Examination	.	.	.	.	.	.	6	6	0
Fee for re-appearance in each Examination	.	.	.	.	.	.	3	3	0

In the event of a candidate being rejected in any one subject only of the second examination, he may, by special permission of the Faculty, be admitted to re-examination in that subject on the payment of a fee of £2, 2s.

TIME-TABLE OF EXAMINATIONS, ETC.

(These will be arranged later.)

PROGRAMME OF CLASSES.

AUTUMN AND SPRING TERMS, 1919-20.

CLASSES.	Days of Opening and Hours of Lectures.	Professors and Lecturers.	Class Fees.
Chemical Laboratory Work and Meteorology	14 Oct., 10 a.m.	Professor Hunter Stewart	£5 5 0
Sanitary Engineering	7 Jan.,	Professor Hudson Beare.	2 2 0
Bacteriology (<i>Wednesday, Thursday, & Friday</i>)	7 Jan., 2 p.m.	Professor Ritchie.	5 5 0
Advanced Public Health	7 Jan., 10 a.m.	Professor Hunter Stewart	4 4 0
Entomology and Parasitology ¹	14 Oct.,	Professor J. H. Ashworth	2 2 0

¹ It is intended that this Class will in future be held in the Summer Term.

SUMMER TERM, 1920.

Tuberculosis (<i>once weekly</i>)	20 Apr., 9.30 a.m.	Professor Sir R. W. Philip	£1 1 0
Veneral Disease	20 Apr.,	. . . . .	1 1 0

Information in regard to the arrangements of the other Courses may be obtained on application to the Dean.

FACULTY OF MUSIC

DEAN—PROFESSOR DONALD F. TOVEY, B.A.

PROGRAMME OF CLASSES, 1919-1920.

The Classes will meet as stated below. They will meet for the last time before the Christmas vacation on Friday, 19th December 1919; will reassemble on Tuesday, 13th January 1920, and will be closed on Friday, 19th March 1920. The Classes are open to Men and Women Students.

CLASSES.	Days of Opening and Hours of Lectures.	Professor and Lecturer.	Class Fees.
Orchestral Practice and Orchestration (<i>Tuesday and Thursday</i>)	14 Oct., 10 a.m.	Professor Tovey	£2 2 0
History and Analysis (<i>Wednesday</i>)	15 Oct., 10.30 a.m.		1 1 0
Theory and Practical Thoroughbass (<i>Wednesday and Friday</i>)	15 Oct., 11.30 a.m.		2 2 0
Advanced Counterpoint and Composition (<i>Friday</i>)	17 Oct., 10.30 a.m.	Dr Shirlaw	1 1 0
Musical Interpretation (<i>Monday and Wednesday</i>)	15 Oct., 2.30 p.m.		2 2 0
Ear Training (<i>Tuesday</i>)	14 Oct., 2 p.m.		1 1 0
Counterpoint (<i>Tuesday</i>)	14 Oct., 3 p.m.		1 1 0
Outlines of Musical History (<i>Thursday</i>)	16 Oct., 2 p.m.		1 1 0
Formal Analysis (<i>Thursday</i>)	16 Oct., 3 p.m.		1 1 0
Harmony (<i>Friday</i>)	17 Oct., 2 p.m.		1 1 0
Advanced Harmony (<i>Friday</i>)	17 Oct., 3 p.m.		1 1 0

Further particulars are given on pp. 658-660.

ENTRY FOR CLASSES, ETC.

Students who do not intend to graduate in Music may, without matriculating or passing any Preliminary Examination, attend any of the Classes, on payment of the Class Fees, and the University Entrance-Fee of Five Shillings *for each class*.

Those desiring to graduate must pass the Preliminary Examination, and must Matriculate before enrolling in any Class, if they wish the Lectures to qualify for Graduation.

Students are required to take out their Matriculation Tickets and Class Tickets not later than fifteen days after the beginning of the Course.

COURSES OF INSTRUCTION, ETC.

The following Classes, Lectures, and Concerts will be given in the Winter Session of 1919-20:—

I. Orchestral Practice and Orchestration.

Twice a week (Tuesdays and Thursdays, 10 a.m.).

Fee—Two guineas.

Students may join this Class as players in the Orchestra, or as students of Orchestration. Those who show sufficient merit as players will be allowed to take part in the concerts of the Reid Orchestra (whose professional members assist at the Tuesday meetings of the Class). Students of Orchestration will obtain practical knowledge of the Orchestra in all its aspects.

II. Musical History and Analysis.

Once a week (Wednesdays, 10.30 a.m.).

Fee—One guinea.

This Class consists alternately of Lectures and of criticism of Essays written by the matriculated students on subjects given out (fortnightly) at the Lectures.

Note.—Candidates for the Degree of Bachelor of Music must attend the Orchestral and Historical Classes for at least one entire Winter Session. (See III., p. 661.)

This qualification is merely "residential": that is to say, it does not imply that these subjects comprise the main requirements of the Degree Examinations, but that these courses must be taken here, whatever the student may have accomplished elsewhere.

III. Theory and Practical Thoroughbass.

Twice a week (Wednesdays and Fridays, 11.30 a.m.).

Fee—Two guineas.

The more advanced students practise the reading of Figured Basses at the keyboard, while the less advanced students work out the same Basses on paper as an exercise in Musical Dictation and Harmony.

IV. Advanced Counterpoint and Composition.

Once a week (Fridays, 10.30 a.m.).

Fee—One guinea.

V. Musical Interpretation :

**The Study of Chamber-Music and Solo Music,
Vocal and Instrumental.**

Twice a week (Mondays and Wednesdays, 2.30 p.m.).

Fee—Two guineas.

Students may attend this Class as players or as listeners. Those who play will, at the beginning of each meeting, write down the name of the work they wish to bring forward, and (if it is an *ensemble* work) the part they play in it. The list of works so chosen is then given to the Professor, who selects from it according to circumstances. The difficulties of the work, technical and æsthetic, are discussed as they arise in performance, from the points of view both of teaching and execution.

The following Classes, preparatory and supplementary to Classes II., III., and IV., are conducted by Dr SHIRLAW:—

VI. Ear-Training.

Once a week (Tuesdays, 2 p.m.).

Fee—One guinea.

Students intending to study the Theory of Music or Harmony and Counterpoint in any form are strongly advised to take this course, unless they can at the outset prove that they do not need it.

VII. Counterpoint.

Once a week (Tuesdays, 3 p.m.).

Fee—One guinea.

VIII. Outlines of Musical History.

Once a week (Thursdays, 2 p.m.).

Fee—One guinea.

IX. Formal Analysis.

Once a week (Thursdays, 3 p.m.).

Fee—One guinea.

X. Harmony.

Once a week (Fridays, 2 p.m.).

Fee—One guinea.

XI. Advanced Harmony.

Once a week (Fridays, 3 p.m.).

Fee—One guinea.

Dates and other particulars of the following will be intimated later:—

XII. A Series of Historical Concerts.

Fee for these Concerts—Half a guinea. Those attending any of the Music Classes will have the privilege of free admission.

XIII. A Course of Public Lectures (*free*)

on various aspects of the music performed at the Historical Concerts, the Concerts of the Reid Orchestra, and other events in contemporary music.

XIV. The Concerts of the Reid Orchestra.

**REGULATIONS FOR GRADUATION
IN MUSIC.**

N.B.—*Roman Numerals indicate Sections of Ordinance No. 34 of the Scottish Universities Commissioners.*

I. Two degrees in Music are conferred by the University, viz. Bachelor of Music (Mus.B.) and Doctor of Music (Mus.D.)

**PRELIMINARY EXAMINATION
FOR THE DEGREE OF Mus.B.**

II. Every Candidate for the Degree of Bachelor of Music shall, before entering upon the curriculum in Music, pass either the Preliminary Examination for the Degree of Master of Arts, or the Preliminary Examination for the Degree of Bachelor of Science in Pure Science, or pass such Examination or hold such University Degree as the Senatus may from time to time determine to accept in whole or in part as equivalent to either of these Preliminary Examinations.

[The Regulations for the Arts and Science Preliminary are given on pp. 87 to 106.]

• BACHELOR OF MUSIC.**University Attendance.**

III. Candidates for the degree of Mus.B. must attend, in the University of Edinburgh, during a whole Winter Session, courses of instruction, including Orchestration and the History of Music.

First Professional Examination.

IV. There is a First Professional Examination in Music in the following subjects :—

- (1) Ear Tests, and Singing or Performing upon some Musical Instrument.
- (2) Reading at Sight.
- (3) Elements of Music, including Notation, Scales, Modes, Intervals, Measure, *Tempo*, Signs, Ornaments, Musical Terms, etc.
- (4) Harmony in not more than four parts.
- (5) Elementary Counterpoint.
- (6) Form : Sonata, Rondo, Fugue, and Minor Structures.
- (7) Outlines of the History of Music.

Second Professional Examination.

V. There shall be, at least one year after the candidate has passed the First Professional Examination, a Second Professional Examination in Music in the following subjects :—

- (1) Harmony in not more than five parts.
- (2) Advanced Counterpoint.
- (3) Canon in two parts, and Imitation and Fugue in not more than four parts.
- (4) Form (Description of Structure and Character of Musical Forms, and Analysis of Musical Works).
- (5) Elements of Instrumentation.
- (6) Critical Knowledge of certain prescribed Scores.
- (7) Playing at Sight from easy Vocal and Instrumental Scores, and from Figured Bass.
- (8) The History of Music.
- (9) Acoustics, in so far as connected with the Theory and Practice of Music, and Physiology of the Vocal Organs.

Each Candidate will also be required to submit the following exercises composed by himself :—

- (a) A Solo Song with Pianoforte Accompaniment.
- (b) A Four-part Vocal Composition.
- (c) An Instrumental Composition (other than a Dance) for the Pianoforte or Organ, or for any Stringed or Wind Instrument, with Pianoforte or Organ Accompaniment.

The extent and standard of examination is fixed by the Senatus. The examination is partly written and partly oral and practical.

DOCTOR OF MUSIC.

VII. Bachelors of Music of this University, of not less than three years' standing, and not less than twenty-five years of age, may offer themselves for the degree of Mus.D. under the following regulations:—The degree is given in three Departments, those of (1) Composers; (2) Executants; (3) Theorists or Historians; and Candidates may present themselves in one or more Departments.

VIII. (1) Candidates for the degree of Mus.D. as Composers must submit a prescribed number of Vocal and Instrumental Compositions in the larger forms (such as Oratorio, Opera, Cantata, Symphony, Sonata, Overture). Each work must be the original and unaided composition of the Candidate, and must be accompanied by a declaration to that effect signed by the Candidate.

(2) Candidates will be examined in the following subjects:—

- (a) The more recondite Contrapuntal Forms—Fugal Writing in more than four parts, etc.
- (b) Instrumentation, including prescribed books on the subject.
- (c) The works of the great Composers, from Palestrina onwards.

IX. (1) Candidates for the degree of Mus.D. as Executants will be required to show their special skill in the execution of Solo and *ensemble* works in different styles. The works will be selected partly by the Candidates and partly by the examiners.

(2) The Candidates will be examined in sight-reading, and must give evidence of their power of playing Orchestral Scores, and will be required to invent Transitions and to modulate from one Key and Piece to another. They will further be required to pass an examination on the History and Literature of their special instrument, and on the method of teaching that instrument.

X. (1) Candidates for the degree of Mus.D. as Theorists or Historians must present one or more treatises on Theoretical or Historical subjects, which must be the result of research and original thought, not mere abstracts or compilations of existing

works. They must be accompanied by a declaration signed by the Candidate that they are his own unaided work.

(2) Candidates will also be required to pass an examination (a) in the Theory and (b) in the History of Music.

The examination will be on a higher standard in the subject which the Candidate selects as his specialty.

XI. The examiners for the degree of Mus.D. are the same as for the degree of Mus.B.

XII. It is competent to the University Court of the University of Edinburgh, after consultation with the Senatus, to modify from time to time the provisions as to curriculum hereinbefore contained, in case such modification shall be rendered desirable.

XIII. (1) The degree of Mus.D. may be conferred *honoris causâ tantum*.

(2) The honorary degree of Mus.D. will not be conferred by the Senatus on any person unless recommended by the Faculty of Music in a reasoned representation, submitted in writing to the Senatus, and considered and approved by the Senatus at a special meeting at which not less than two-thirds of the members were present.

FEES FOR EXAMINATIONS.¹

Preliminary Examination, for each appearance, 10s. 6d.

Degree of Mus.B., £10, 10s., divided as follows:—

First Professional Examination	£3	3	0
Second Professional Examination	4	4	0
For the Diploma (<i>payable at least two days before Graduation</i>)	3	3	0

Candidates who fail in any subject pay a fee of 10s. 6d. for each subject in which they are admitted to re-examination; but the total shall not exceed £3, 3s.

Mus.D. Examination	£15	15	0
Reappearance for do.	10	10	0

Candidates who cannot pay the fees personally may transmit them to JAS. DOWIE, University, Edinburgh, by *Money Orders* or *Postal Orders*, or by *Bank Drafts*, crossed Union Bank of Scotland (Hunter Square Branch), Edinburgh.

¹ If names are not entered, and fees are not paid, on or before the stated dates, a late-entry fee of ten shillings must be paid before the candidate can be admitted to examination.

DATES OF EXAMINATIONS.

Preliminary. (See pp. 105 and 106.)

1920.

Degree of Mus.B.

Mar. 1 Mon. Names to be given in, Certificates shown,
and fees paid, on or before this date.

First Professional Examination.

Date.		Subject.	Hours.
1920.			
Mar. 15	Mon.	History of Music	10-1
		Harmony	2-5
" 16	Tu.	Counterpoint	10-1
		Elements of Music	2-5
" 17	Wed.	Singing, Playing, Reading at Sight, and Ear Test	10
		Form	2-5

Second Professional Examination.

Date.		Subject.	Hours.
1920.			
Mar. 15	Mon.	Instrumentation, and Critical Knowledge of Scores	10-1
		Harmony	2-5
" 16	Tu.	Counterpoint	10-1
		Canon and Fugue	2-5
" 17	Wed.	Playing at Sight from Scores	9
		Form	2-5
" 18	Thur.	History	10-1
		Acoustics, and Physiology of the Vocal Organs	2-5

BUCHER SCHOLARSHIP IN MUSIC.

This Scholarship, founded by the late Signor Theophile Bucher, is of the annual value of £120, and is tenable for three years; and may be extended for a further period not exceeding two years. The Subjects of Examination include Rhythm, Harmony, and Counterpoint. The competition is open to young men between the ages of sixteen and twenty-five inclusive, born in Scotland, who show a natural talent for music and wish to make it their profession, and who either are, or have been, enrolled as students in the Faculty of Music in this University. The Scholarship is bestowed for the purpose of improving the scholar's education; and he must, during his tenure of it, prosecute the study of the science and art of Music in Italy, Germany, and France, as the Senatus, on the recommendation of the Faculty of Music, may determine. The Scholarship may be open in March 1920. Names to be entered on or before 1st February. See Scheme of Administration, p. 709 of CALENDAR for 1894-95.

GRADUATION LISTS.

Complete Lists of Degrees conferred, to 1888, are given in the following volumes:—

A Catalogue of the Graduates in the Faculties of Arts, Divinity, and Law, of the University of Edinburgh, since its Foundation (published 1858).

List of the Graduates in Medicine in the University of Edinburgh, from MDCCV. to MDCCCLXVI. (published 1867).

Alphabetical List of Graduates of the University of Edinburgh, from 1859 to 1888 (both years included).

Lists of Degrees conferred, etc., etc., from 1889 onwards, are given in the UNIVERSITY CALENDARS.

HONORARY GRADUATES.

D.D., LL.D., AND MUS.D.

Conferred 1909—1918.

DEGREE OF DOCTOR OF DIVINITY (D.D.).

The Degree of Doctor of Divinity is conferred *honoris causâ tantum*,—and is granted in absence in special cases only. The Register of Doctors of Divinity begins in 1709, with the names of Edmund Calamy, Daniel Williams, and Joshua Oldfield. The names of Evans, Harris, and Isaac Watts follow in 1728.

1909.

John Brown, M.A., B.D.
William Fairweather, M.A.
James Hope Moulton, M.A.,
D.Lit.
Andrew Blair Wann, M.A., B.D.

Professor John Wood Oman,
M.A., B.D., D.Phil.
F. L. Hawks Pott, D.D.
Julius Richter, D.Th.
Canon C. H. Robinson, M.A.
Robert E. Speer, M.A.
R. Wardlaw Thompson, B.A., D.D.
Lic. J. Warneck.

1910.

K. C. Chatterji, D.D.
George Gardiner, M.A., B.D.
John Henry Jowett, M.A.
Professor Harry Angus Alexander
Kennedy, M.A., D.Sc.
W. Douglas Mackenzie, M.A.,
D.D.

1911.

Canon George Albert Cooke,
M.A., D.D.
George Galloway, M.A., B.D.,
D.Phil.
Robert Law, M.A., B.D.
David Scott, M.A., B.D.
Robert S. Simpson, M.A.

1912.

Andrew Benvie, M.A., B.D.
 John Fraser Grahame, M.A., B.D.
 Principal E. Griffith-Jones, B.A.
 Professor J. Macphail Russell,
 M.A.
 George Steven, M.A.

1913.

The Hon. Arthur Gordon, M.A.
 Professor Wilhelm Herrmann,
 D.Th.
 Charles Jerdan, M.A., LL.B.
 Geo. Marjoribanks, B.D.
 Adam C. Welch, B.D., D.Th.

1914.

Professor William A. Curtis, M.A.,
 B.D., D.Litt.
 Alexander B. Macaulay, M.A.
 Alexander J. Macquarrie, M.A.
 William Lowe Walker.
 George H. S. Walpole, D.D.
 (Bishop of Edin.).

1915.

James R. Gillies, M.A.
 Norman Maclean, M.A.
 David Paul, LL.D. (Moderator of
 the Church of Scotland)
 James Rutherford, B.D.

1916. (None.)

1917. (None.)

1918. (None.)

DEGREE OF DOCTOR OF LAWS (LL.D.).

The Degree of Doctor of Laws is conferred *honoris causa tantum*. It was first granted in 1695. Previously to 1751 it had been conferred on seven persons only. Since then, several hundreds of names, including some of the most distinguished in Europe, have been added to the list. The degree is not conferred in absence except in very special cases.

1909.

James Matthew Barrie, M.A.
 John George Bartholomew.
 Emeritus-Prof. A. Crum Brown,
 M.A., M.D., D.Sc., F.R.S.
 Professor William Burnside, M.A.,
 D.Sc., F.R.S.
 Alexander Carmichael, F.S.A.
 Madame Curie, Docteur ès
 Sciences.
 The Hon. Lord Dundas.
 Surgeon-General Sir Alfred Keogh,
 K.C.B.
 Professor C. H. Kronecker, M.D.,
 D.Sc.
 John Edwin Sandys, Litt.D.
 The Rev. Emeritus-Professor M.
 C. Taylor, D.D.
 The Right Hon. George Wynd-
 ham, M.P., D.C.L.

1910.

Chief Scout Lieutenant-General
 Sir Robert S. S. Baden-Powell,
 K.C.B., K.C.V.O.
 General James A. Beaver.
 The Lord Hugh Cecil, M.P.
 Emeritus-Professor John Chiene,
 M.D., C.B.
 James Avon Clyde, K.C., M.P.
 The Right Hon. and Most Rev.
 Randall Thomas Davidson,
 G.C.V.O., D.D., D.C.L.
 The Rev. Tasuku Harada.
 Professor Matthew Hay, M.D.
 Sir Thomas Hunter, W.S.
 Emeritus-Professor John Kirk-
 patrick, M.A., Dr. Jur.
 Thomas Kirkup, M.A., Wimble-
 don.
 The Hon. Seth Low.

His Excellency Commendatore
Luigi Luzzatti.
Professor Karl Meinhof, D.D.
John R. Mott, Esq.
Commander Robert Edwin Peary.
Professor William H. Perkin, Ph.D.,
M.Sc., F.R.S.
Thomas Ross.

1911.

The Hon. John Abercromby.
Sir John Anderson, G.C.M.G.
Charles Bruce, Esq.
Sir Thomas S. Clouston, M.D.
Frank W. Dyson, Esq., F.R.S.
Sir Walter Egerton, K.C.M.G.
Sir William Gowers, M.D., F.R.S.
Sir Everard Im Thurn, C.B.,
K.C.M.G.
Sir Charles A. King-Harman,
K.C.M.G.
James Mackenzie, Esq., M.D.
The Rt. Hon. Sir Edward Patrick
Morris, K.C.
The Right Hon. Lord Justice
Fletcher Moulton, F.R.S.
Francis Grant Ogilvie, Esq., C.B.
Sir Sydney Olivier, K.C.M.G.
Charles W. C. Oman, F.S.A.
Ernest Rutherford, F.R.S.
His Highness The Maharaja
Scindia of Gwalior, G.C.V.O.,
G.C.S.I.
Sir Alfred Sharpe, C.B.,
K.C.M.G.

1912.

The Rt. Hon. The Earl of Minto,
K.G., G.C.M.G., G.C.S.I.,
G.C.I.E.
Professor H. B. Allen, M.D.
Lt.-Col. Fred. Bailey, R.E.
Professor J. Theodore Cash, M.D.,
F.R.S.
J. S. Flett, Esq., D.Sc.
W. Warde Fowler, Esq., M.A.,
D.Litt.
The Hon. Lord Johnston.
Professor W. C. McIntosh, F.R.S.

Robert Munro, Esq., M.A., M.D.,
F.R.S.E.
Sir James Porter, K.C.B.
Sir Thomas Raleigh, K.C.S.I.
J. L. Robertson, Esq., M.A.,
LL.B.
Professor R. Ramsay Wright, M.A.,
B.Sc.

1913.

Walter B. Blaikie, Esq.
H. A. L. Fisher, Esq., M.A.
Thomas Gilray, M.A., Professor of
English.
Emeritus-Professor Greenfield.
Sir James Guthrie.
The Rt. Hon. Lord Justice
Hamilton.
Dr W. Allan Jamieson.
R. T. Omond, Esq., F.R.S.E.
John Stewart, Esq., M.B., C.M.
Geheimrat Professor F. Strass-
mann.
Professor J. Arthur Thomson,
M.A.
The Hon. James Wilson.

1914.

Dr Byrom Bramwell.
The Right Hon. Sir Charles Dal-
rymple, Bart.
W. J. Dundas, Esq., C.S.
J. L. Ewing, Esq.
The Hon. Lord Guthrie.
Dr F. Walker Mott, F.R.S., Lond.
Professor G. Gregory Smith, M.A.
Professor J. A. Smith, M.A.

1915.

Sir Robert Blair, M.A., B.Sc.
The Hon. John W. Fortescue.
Professor W. M. Gloag, K.C.
Prof. W. A. Herdman, D.Sc., F.R.S.
Frederick Niecks, Mus. Doc.
Sir Alexander Oliver Riddell.
Prof. Arthur Thomson, M.A., M.B.
Charles Whibley, M.A.

1916.
The Rt. Hon. Wm. M. Hughes.

The Hon. Walter H. Page.
Gen. The Rt. Hon. Jan C. Smuts.
Col. H.H. Maharaja Sir Ganga
Singh Bahadur, of Bikaner.

1917.
The Rt. Hon. Sir Robert L. Borden.
The Rt. Hon. William F. Massey.

1918.
The Rt. Hon. D. Lloyd George.

THE HONORARY DEGREE OF DOCTOR OF MUSIC (Mus.D.).

1910.
Frederic H. Cowen, Mus.D.(Camb.).
George Henschel.

1918.
John Kirkhope, Esq.

HIGHER DEGREES IN ARTS AND SCIENCE

CONFERRED 1909-1918

DEGREE OF DOCTOR OF PHILOSOPHY (D.Phil.).

1910. George Freeland Barbour,
M.A.
1911. Thomas Gwynne Maitland,
B.A., M.A., B.Sc., M.D.
John M'Kellar Stewart, M.A.
1913. Tobias Ballot Muller, M.A.,
B.D.

1915. Robert Morrison Maciver,
M.A.
Kenneth Edward, M.A.
1916. James Drever, M.A., B.Sc.
(Lond.)

DEGREE OF DOCTOR OF LETTERS (D.Litt.).

1909. Matthys Pieter Rooseboom,
M.A.
1911. William Alexander Curtis,
M.A., B.D.
1912. Henry William Meikle, M.A.
1913. John Willcock, M.A., B.D.,
D.D.
1914. John Hubert Jagger, M.A.
Arthur Berriedale Keith,
M.A., D.C.L.

1915. Richard Wilson, B.A.(Lond.).
1916. George Simpson Marr, M.A.,
B.D.
1917. Ruth E. Clark, M.A.
1918. Henry J.W. Tillyard, M.A.
(Camb.).
Arthur S. Tritton, M.A.
(Oxon. and Lond.).

DEGREE OF DOCTOR OF SCIENCE (D.Sc.).

In Pure Science.

1909.

Alexander Ninian Bruce, B.Sc.
 James Andrew Gunn, M.A., B.Sc.,
 M.D.
 Peter David Innes, M.A., B.Sc.
 James Patrick Longstaff, B.Sc.
 Henry Walker, M.A., B.Sc.

1910.

John Trotter, B.Sc.
 Forsyth James Wilson, B.Sc.,
 Ph.D.
 Thomas John Ireland Craig, B.Sc.
 John Alex. Hope Johnston, M.A.

1911.

Robert Campbell, M.A., B.Sc.
 William Thomas Gordon, B.A.,
 M.A., B.Sc.
 William Adam Jolly, M.B., Ch.B.
 Archibald Currie MacGilchrist,
 M.D. (Capt. I.M.S.).
 Robert Burns Young, M.A., B.Sc.

1912.

David Bain, B.Sc., M.Sc.
 John William Bews, M.A., B.Sc.
 Nanabhay Ardaseer Framji Moos,
 B.Sc.
 Robert Charles Wallace, M.A.,
 B.Sc., Ph.D.

1913.

Alexander Bremner, M.A., B.Sc.
 Bertha Chandler (Mrs C. Norman
 Kemp), M.A., B.Sc.
 Banawari Lal Chaudhuri, B.A.
 B.Sc.
 Henry Otto Feiss, A.B., M.D.

In Engineering.

1909.

Peter Chalmers Cowan, B.Sc.

1910.

William Archer Porter Tait, B.Sc.

Alexander Barrie Grieve, M.A.,
 B.Sc.
 Robert Arno Krause, M.D.
 George Philip, M.A., B.Sc.
 Ernest MacLagan Wedderburn,
 M.A., LL.B.

1914.

Thomas Graham Brown, B.Sc.,
 M.B.
 William Burns, B.Sc.
 James Argyll Campbell, M.D.
 Andrew Young, M.A., B.Sc.

1915.

Alexander Gemmell, B.Sc.
 Sudhamoy Ghosh, M.Sc. (Cal.).
 James Pickering Kendall, M.A.,
 B.Sc.
 John William Scott Macfie, B.Sc.,
 M.B.
 James Wallace M'David, B.Sc.,
 M.Sc. (Vict.)
 William Francis Porter M'Lintock,
 B.Sc.
 Alexander Lyall Pearson, M.A.,
 B.Sc.

1916.

James Walker Dawson, M.D.
 Archibald Milne, M.A., B.Sc.

1917. (None.)

1918.

Edward L. Ince, M.A., B.Sc., B.A.
 (Camb.).
 Harold G. Rule, B.Sc. (Lond.),
 Ph.D. (Munich).
 Alexander M. Williams, M.A., B.Sc.

1914.

Gilbert Henry Gulliver, B.Sc. (Lond.)

1917.

Thomas B. Murray, B.Sc.

1918.

Ellice M. Horsburgh, M.A., B.Sc.

In Public Health.

1909.

William Burney Bannerman, M.D., B.Sc. (Lt.-Col. I.M.S.).		Edward David Wilson Greig, M.D., B.Sc. (Capt. I.M.S.).
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FACULTY OF ARTS

DEGREE OF MASTER OF ARTS (M.A.) with HONOURS,
Conferred 1909-1918.

The contractions Phil., Math., Eng., Mod. Lang., Hist., Econ. Sc., and Lat. and Fr. indicate the Departments or Groups of Mental Philosophy, Mathematics and Natural Philosophy, English, Modern Languages, History, Economic Science, and Latin and French respectively; and the Italic Numerals, i., ii., and iii. indicate First, Second, and Third Class Honours respectively.

1909.

<i>Classics i.</i> , John Young Campbell. Walter Scott Clark. Barbara Margaret Craw. William Hendry. James Hutton. Mary Kelman Mills. Margaret Kinmont Tennant. <i>Classics ii.</i> , Vincent Cassels Alexander. William Bruce. George Leslie Marshall. <i>Classics iii.</i> , Bernard Henry Herford. Andrew Young. <i>Phil. i.</i> , John Fraser Adam. Donald Macpherson Baillie. Robert Ross. <i>Phil. ii.</i> , Mary Theodora Colville. <i>Phil. iii.</i> , Esther Gertrude Bell. George Aitchison Henderson. <i>Math. ii.</i> , Jibon Mohan Bose, B.Sc. Alexander Farmer Ewan. Ann Sanderson Haig. Cornelius Hope. David Kennedy-Fraser, B.Sc. Adam Wilson Moodie. Robert Alexander Sinclair. Erskine Douglas Williamson, B.Sc.	<i>Math. iii.</i> , Norman Izat. Margaret Dixon Miller. <i>Eng. i.</i> , Edward Albert. Gordon Hislop. Hugh Marwick. <i>Eng. ii.</i> , Evelyn Eliza Paterson Duffes. Ernest Hope Lamb. May Cochrane Hunter Lawson. Joseph Alexander Rae. Mary Catharine Smith. Janie Carruthers Stewart. <i>Eng. iii.</i> , Elizabeth Duncan Weir. <i>Mod. Lang. i.</i> , Ruth Elvira Clark. Rachel Porteous Laing Fraser. Annie Watson. Sophia Isabella Younie. <i>Mod. Lang. ii.</i> , Hugh Morison Miller. Annie Claire Nelson. Isabella Mackay Scott. Jane Hamilton Bruce Wilkie. <i>Mod. Lang. iii.</i> , Robert Blair Forrester. Nora Mackay. <i>Hist. i.</i> , Alec Williamson.
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- Hist. ii.*, Maximilian Friedrich Liddell.
 William Robert Walker.
Hist. iii., Godfray William Herbert Davies.
Econ. Sc. ii., Robt. Blair Forrester.
 William Muter Leggate.
Econ. Sc. iii., Mudiyl Kesava Padmanabha Pillai.

1910.

- Classics i.*, Robert Allan Cameron.
 Matthew George Fisher.
 Christina Keith.
 Jeffrey Blackstock M'Glashan.
 James Johnstone Maybin.
Classics ii., Alexander Cameron Badenoch.
 George Brotherston.
 John Spenser Jolly.
 Alec Graham Scougal.
Classics iii., Jane Binnie Hunter.
 William Dallas Jamie.
Phil. i., Alan James Dorward.
Phil. ii., Archibald Campbell Craig.
Phil. iii., Robert Westlands Leckie.
Math. i., Archibald Wallace Williamson Bain.
 Robert Graham Harris.
 Eric Schacht.
 Alexander Mitchell Williams.
 Duncan Kippen Wilson.
Math. ii., Thomas John Cunnison.
 Francis Mackay Dickson.
 Archibald Barr MacLean.
 Eric Milroy.
 Barclay Brown Murdoch, B.Sc.
 John William Tait.
Math. iii., Francis George Deans.
 Frederick William L'Amie.
Eng. i., Gairdner White Hendrie.
 Margaret Anne Mackenzie.
 James Kyd Thomson.
Eng. ii., Percy Charles Gaskin.
 Lois Hastings.
 James Bertram Naismith.
 Catherine Christian Robertson.
 Jean Moffett Speedy.
 Ada Janet Allan Watson.
 Annie Aird Wyllie.
Eng. iii., Hugh Stewart Walker.

- Mod. Lang. i.*, Adekide Mary Galletly.
 Jessie Margaret Hunter MacCaig.
 Jane Johnston Milne.
 Alexandrina Murray.
Mod. Lang. ii., Agnes Leslie Anderson.
 Ann Eliza Mabel Beaton.
 Margaret Courtts.
 Mary Yool Henderson.
 Bessie Jemima Keith.
 Sara Johns Inches Lawson.
 Elizabeth Helen Irons Millar.
 Margaret Munro Monaghan.
 Elspeth Ross Shearer.
Mod. Lang. iii., Donald Grant.
 Alice Leonard Leith.
 Gilbert Cameron Mowat.
 Eleanor Alice Moffat Turnbull.
Hist. i., Edward Sawers.
 John Vivers.
Hist. ii., Thomas Howden Fraser.
Hist. iii., Edith Kate Chandler.
Econ. Sc. i., Thomas Howden Fraser.
 Thomson Sinclair Mackie.
 Mary Theresa Rankin.

1911.

- Classics i.*, Robert Culbertson.
 Colin Edward Cumming.
 James Bennett Guild.
 Duncan Campbell Macgregor.
 Olaus M'Leod Martin.
 John Alexander Maybin.
 Arthur Nesbitt Strong.
Classics ii., George Brown Barbour.
 Patrick Hamilton Borrowman.
 Grace M'Kenzie Hodge.
 Philip Charles Lempriere.
 Alec Bain Tomnochy.
 George Hamilton Williamson.
Classics iii., Thomas Couston.
 Alfred Ernest Warr.
Phil. i., Olaus M'Leod Martin.
Phil. ii., William Ronald Dodds Fairbairn.
Math. i., David Wilkie Cameron.
 James Andrew Donaldson.
 Margaret Christina Fraser.
 John Gibson Gibson.

- Thomas Greig Ironside.
 Hyman Levy.
 John Mackie.
 Andrew Nelson.
 Charles William Blyth Normand.
 Francis Spalding Warden
 Thomson, B.Sc.
 Grace Tennant Thomson.
 Robert Vickers.
Math. ii., Margaret Love Muir.
Math. iii., Andrew Buchan Dea.
Eng. i., Marjorie Amelia Bald.
 Catherine Macdonald Maclean.
 Winifred Marjorie Macrae.
 James Murray Watson.
 Alison Walker Shiels.
Eng. ii., Georgina Stewart Dalglish.
 Alfred Daniel.
 James Brown Kincaid.
 Charlotte Montgomerie Mac-
 alister.
 Elizabeth Henderson Macdonald.
 William Mill.
 Jessie Henrietta Margaret Roy.
 William Fowler Templeton.
Mod. Lang. i., Mary Burns.
 Mabel Duff Curtis.
 Annette Anderson Hunter.
Mod. Lang. ii., Mary Elizabeth
 Montgomerie Bell.
 Margaret Elizabeth Bremner
 Cameron.
 Philippe Charles Guillaume le
 Harivel.
 Catherine Macrae.
 Agnes Inglis Wilson Shiels.
 Helen Stewart.
Mod. Lang. iii., Margaret Dunn.
 Alison Trail Montgomery.
Hist. i., John Alexander Calder.
 Henry Hall Norton.
Econ. Sc. iii., Jas. Allister M'Gregor.
- 1912.
- Classics i.*, James Richard Blair.
 Duncan John Cameron.
 Alexander Campbell.
 Thomas Mackay Cooper.
 Robert Kerr.
 Edwin Gray M'Hutchon.
 James Braid Taylor.
- Classics ii.*, Norman Duncan Cuth-
 bertson.
 Robert Douglas.
 James Stevenson Fenton.
 Joseph Henry Trestrail Kilgour.
 John Stewart Macbeth.
 George Taylor Pringle.
 Alice Elizabeth Stirling.
Classics iii., Edward John Howard
 MacIldowie.
 George Arthur MacKenzie.
 James Alexander Reid.
Phil. i., Harold Foster Hallett.
Phil. ii., Frank Ryrrie.
Phil. iii., Henry Nicoll Forbes.
Math. i., Isaac Eban.
 William Gillon.
 George Shearer.
 Robert Scott Wishart.
Math. ii., John Petersen Gunn.
 William Innes.
 William Jardine.
 William Liddell.
Eng. i., Robert Finlay Gerrard.
 Harry Sellers.
Eng. ii., May Beale.
 Christina Bertram Brownlee.
 Annie Muriel Carrie.
 Ogilvie Paterson Duffes.
 Ethel Jane Clark Ewan.
 Norman Bruce Lothian.
 Edward George M'Alpine.
 Edith Jane Masterton.
 Alexander Sutherland Neill.
 Elfreyda Maud Clouston Porteous.
 Katharine Noël Wilson.
Eng. iii., Margaret Munro Davidson.
 Drummond Ferguson Greenslade.
 Bna Rose Mackenzie.
- Mod. Lang. i.*, Marie Louise Barker.
 Dorothy Catherine Cuthbertson.
 Eleanor Livingston.
 Ella Lamont Ritchie.
 Muriel Smith.
 Mary Veitch.
- Mod. Lang. ii.*, Jeannie Robertson
 Buchanan Carmichael.
 Alice Heriot Douglas.
 Agnes Fullarton.
 Margaret Ritchie Galloway.
 René Pierre Legros.

Robert Herdman Pender.
 Janie Keay Stuart.
Mod. Lang. iii., Anne Middleton
 M'Diarmid.
 Maurice Arthur Stokes.
Hist. i., Margaret Isabella Adam.
 Arthur Birnie.
Hist. ii., John Norrie Anderson.
 William Scott Douglas.
 Janet Girdwood MacGregor.
 Samuel Rae.
 Arthur Allen Waugh.
Hist. iii., Jas. Roy Stephens Young.

1913.

Classics i., William Dickie.
 Thomas Hope.
 Margaret Black Martin.
 Daniel Stalker.
Classics ii., Andrew Thomas Cluness.
 Charles Francis Crichton.
 Agnes M'Kendrick.
 John Snaddon Thomson.
 William Andrew Thomson.
Classics iii., Arthur Gore Collinson.
 Janet Hutchison.
Phil. i., Harold Luck.
Phil. ii., Alfred James Mackenzie.
 Walter Simpson.
Math. i., Edward Lindsay Ince.
 William Wither M'Clelland.
 William George M'Ewen.
 John David M'Beath Ross (B.Sc.).
 Robert Stark.
 Alexander Smith Tennant.
 Andrew White Young.
Math. ii., John Gall.
 James Kilgour.
 John Forbes Walker.
Math. iii., John Millar Maxwell.
Eng. i., John Malcolm Macpherson.
 Archibald Turnbull.
 Isabella Watson.
Eng. ii., Dorothea Anderson.
 Christina Somerville Baillie.
 Evelyn Margaret Buchanan.
 Beatrice Elizabeth Coutts.
 John George Gunn Cuthbert.
 Dorothy Dawson Forster.
 William Allan Forsyth Hepburn.

Joseph Sim Husband.
 Jessie May Jack.
 George Scrimgeour Maxton.
 Lucy Milton Norton.
 John M'Lellan Stewart Paterson.
 Margaret Finlay Purves.
 Harold James Seymour Reavely.
 William Tulloch.
Eng. iii., Maybel Margarita Benvie.
 John Paris.
Mod. Lang. i., Jenny Pearson
 Cunningham.
 Margaret Dickie Howie.
 Margaret Sime Hutt.
 Jean Keith Leslie.
 Mary Somerville Sanderson.
 Annie Scott Taylor.
 Mary Lewars Williamson.
Mod. Lang. ii., Caroline van der
 Briele.

Elizabeth Hardie Ireland.
 Alexander Linton.
Mod. Lang. iii., Agnes Buyers.
 Anna Nelson Ferrie.
 Jean M'Naught.
 Margaret Sutherland Welsh.
Hist. i., Alexander Balfour Hare.
 David Brown M'Alpine.
Hist. ii., Edith Margaret Chrystal.
 Hyndmer Rutherford Dunn.
 Daisy Mackay.
 Allan Lindsay Walker.
 Ronald Rosselet Whitcombe.
Econ. Sc. i., George Clarke
 Lawrence.

1914.

Classics i., John Menzies Beattie.
 William Johnston Cuthbert.
 Thomas Miller Dow.
 Flora Lillias Duncan.
 Stephen Green.
 John Mackintosh Laing.
 Raymond Leslie Langley.
 Frederic Mann.
 Elizabeth Cochrane Paterson.
 Leonard Cecil Paton.
 Robert Robertson.
 Thomas Gibb Smeaton.
 William Young.

- Classics ii.*, Hugh Bone.
 Ebenezer Fenton.
 George Boyd Foulkes.
 Alister MacKenzie.
 Alexandrina Makin.
 William Nimmo Walsh.
Classics iii., Wm. Logan Grassick.
 Thomas Alexander Hislop.
 Duncan Macnaughton.
 James Rae.
 William Grant Spruell Stuart.
 James Leitch Wilson.
Phil. i., Wm. Roxburgh Forrester.
 James M'Kenzie.
Phil. ii., Geo. Howden Macalister.
 Frank Ogilvie Stewart.
Phil. iii., George Alexander Roger.
Math. i., Elizabeth Barr.
 Roderick M'Callum.
 George Pringle Smith.
 John William Thomson.
Math. ii., James Angus.
 James Cassels.
 Agnes Frances Brownlee Don.
 Janette Gilchrist Dunlop.
 Wm. Donald Ross MacLennan.
 Alexander Marshall.
 George Scott Mill.
 Annie Brown Moir.
 John David Moncur Watson.
Math. iii., John Crichton.
 Thomas Curr.
 James Collins Howie.
 Morusupalli Venkata Krishna.
 Jack Grist Scougal.
Eng. i., Dorothy Ashcroft.
 Alexander Campbell.
 Arthur John Gibb.
 Charles Kenneth Scott Moncrieff.
 William Fordyce Paul.
 Bertha Dorothy Wright.
Eng. ii., Gladys Kate Bignold.
 James Brangwyn Binns.
 Mary Cathcart Briggs.
 Bertram Brooksbank.
 Jessie Lillian Clarke.
 Donald Davidson.
 Georgina Guthrie Graham.
 Christina Russell Grant.
 Mary Frances Laird.
 Margaret Manson.
 John Nisbet.
 Robert Kennedy Muir Simpson.
 William Scott Stevenson.
 George Gibson Neill Wright.
Mod. Lang. i., Eva Katherine Turnbull Bell.
 Mary Alexa Brown.
 Agnes Russell MacIver.
 Agnes Kirkland Strong.
Mod. Lang. ii., Jean Fotheringham Fraser.
 Rhoda Margaret Grizelda Hunter.
 Agnes Muriel Johnston.
 Agnes Hatelie Paris.
 Margaret Denholm Paterson.
 Jessie Graham Morton Shearer.
 Alexander Murray Simpson.
 Mary Blair Smith.
 Margaret Campbell Walker Wicks.
Mod. Lang. iii., Janet MacKercher Lawson.
 Christina Wright Steel.
Hist. i., Thomas Dalgleish Fairgrieve.
 Thomas Morton Steven.
 John Younie.
Hist. ii., Robert Somerville Brydon.
 Margaret Dawson Ettershank.
Hist. iii., Mary Wilson Barrie (M.A. Glasgow).
Econ. Sc. i., Norman Keith Paterson.
 Edward John Wilson.
Econ. Sc. ii., John Crawford.
 Thomas Andrew Joynt.
Lat. and Fr. ii., Grace Kennedy.
 Margaret Allan Sloan Ross.
 Peter Watson.

1915.

- Classics i.*, George Brown.
 John Henderson Seaforth Burleigh.
 Walter James Gibb.
 Robert Browne Kerr.
 John Forsyth Marshall.
 James Innes Miller.
 John Penman.
 James Greig Shearer.
 John Whittaker.

Classics ii., Annie Anderson.
 William Alexander Anderson.
 William Harrower.
 Jean Stark Lindsay.
 James Rankin.
Classics iii., Arthur Ernest Tulloch
 Howell.
Phil. i., George Brown.
 Raymond Alastair MacLean.
 William Murray.
 Nowell Ashton Turner Smith.
Phil. ii., William Hamilton.
 John Robson Martin.
 Reginald Frederick Whiteley.
 Elspeth Skene Wilson.
Phil. iii., William Alfred Martin
 Austin.
 William Young Drummond.
 Ernest Rankin Griffiths Jones.
Math. i., Thomas Arnold Brown.
 Robert Taylor Dunbar.
 John Mackenzie.
 Margaret Pirie White.
Math. ii., Haripada Datta.
 Isabella Drennan.
 David Jeffrey.
 George Mitchell Martin.
 Catherine Bell Mills.
 Anne Salmon Paterson.
 William Archibald Sinclair.
Math. iii., Horace Arthur Gillman.
 George Hugh Matheson.
 James Smith Parker.
Eng. i., Mary Macleod Martin.
Eng. ii., Margaret Allan.
 Muriel Janet Chalmers.
 Elizabeth MacLagan Gorrie.
 Jane Beith Macarthur Macaulay.
 Jane Wilson Main.
 Arthur Mowat.
 James William Thomson.
Eng. iii., Andrew M'Gregor Cant.
Mod. Lang. i., Helen Robertson
 Burns.
 Elizabeth Vera Brown Fisher.
 William Henderson.
 Elizabeth Mabel Scott.
 Elizabeth Wilson Tait.
Mod. Lang. ii., Nellie Rattray Beat.
 Helen Watson Melville Bell.
 Louisa Irving.

Margaret Hodge Irving.
 Catherine Finlayson Mackenzie.
 May Turner Wood.
Hist. i., John Charles Grierson.
 James Innes Miller.
 Laurance James Saunders.
Hist. ii., Margaret Hogg Anderson.
 Margaret Jamieson Falconer.
 Donald MacPherson.
 Margaret Hume Pringle.
Econ. Sc. i., William M'Kutcheon
 Mitchell.
 John Robert Taylor.
Econ. Sc. ii., William Graham.
Econ. Sc. iii., Ram Kishore Lall
 Nandkeolyar.
Lat. and Fr. ii., Florence Edgar
 Heriot.

1916.

Classics i., William James Anderson
 May Liddle Watt Scott.
Classics ii., David Brown.
 James Brown.
 William Low Douglas.
 Blanche Lawrie Watt.
Classics iii., James Potter Murray.
Math. i., George Calder.
Math. ii., James Horst Brunnemann
 Bell.
 Velagapudy Ramakrishna. (*In
 absentia.*)
 Thomas Duncan Falconer Scott.
Math. iii., Elizabeth M'Vittie.
Eng. i., Freda Mary Buchanan.
 Eva Marguerite Stephen.
Eng. ii., Mary Ann Baird Aitken.
 Hugh Clarkson.
 Janet Ida Marguerite Adela
 Coutts.
 Janie Eadie Barclay Craig.
 Robert Cromarty.
 Margaret Evelyn Duff.
 Robina Agnes Henderson.
 Margaret Jane Munro.
 Jessie Stevenson.
Eng. iii., Vera Paterson Duffes.
 (*In absentia.*)
 Agnes Isabel Johnston.
 Thomas Muir Linkie (Pte. 8th
 Cameron Highlanders).

- Aegrotat*, Janet M'Millan Gracie.
Mod. Lang. i., Margaret Keith Brown Somerville.
Mod. Lang. ii., Elizabeth Janette Boag.
 Margaret Edwards Haggart.
 Gertrud Elsie Loewenhardt (now Dallas).
 Lilian Isabella MacAlley.
 Clara Elizabeth Littlewort Macwhirter.
 Margaret Fowlie Merson.
 Rodney Margaret Murray.
Hist. i., Francis Campbell Hood.
 William Hutton Marwick.
Hist. ii., Isabella Guthrie.
 Alice Helena Williamson.
Econ. Sc. i., Atul Chandra Sen-Gupta.
Econ. Sc. ii., Ganesh Bhaskar Jathar, B.A. (Camb.). (*In absentia*.)
Econ. Sc. iii., Gopala Krishna Duggirāla.
Lat. and Fr. i., Agnes Jessie Fraser.
 Harry Ezekiel Wedeclefsky.

1917.

- Classics i.*, Lavinia C. Sinclair.
 Dorothy Steven.
Classics ii., Annie Simpson.
Math. i., Margaret M. Loudon.
 Eleanor Pairman.
 Margaret G. Pringle.
Math. ii., Margaret Macgregor.
 Rachel G. Somerville.
Math. iii., Agnes M. Scott.
 Merle Vieyra.
Eng. i., Jessie Harris.
 Jessie H. Wakelen.
Eng. ii., Margaret M. Bannerman.
 Gertrude M. Beevers.
 Elizabeth Scott Elliot.
 Violet B. M'Callum.
 Margaret M. M'Crea.
 Muriel G. Mackichan.
 Lilian M. Macklin.
Eng. iii., Agnes E. S. Adamson.
 Annie E. Hay.
 Mabel M. Watt.

- Mod. Lang. i.*, Mysie E. J. Robertson.
Mod. Lang. ii., Agnes H. Bannerman.
 Amelia M. Davidson.
 Constance Gavine.
 Lizzie M. Miller.
 Margaret R. Parker.
 Jessica M. Paterson.
Hist. ii., Mary E. Kerr.
 Edith S. Southall.
Econ. Sc. ii., Tien J. Y. Chien.
 Matukumalli R. Sastri.
 Shoa-Shane Shang.
Lat. and Fr. i., Maysie Deas.

1918.

- Classics ii.*, Mary Phimister.
Phil. i., James Brown.
Math. i., Rhoda R. C. Buchanan.
Math. ii., Margaret B. Kilgour.
 Agnes P. Morrison.
Eng. i., Helen W. L. Bowie.
 Lucy M. Cumming.
 Merritt Y. Hughes, M.A. (Boston).
Eng. ii., Elizabeth Cuthell.
 Grace J. Dedman.
 Norah J. Henderson.
 Martha Hossack.
 Mary H. F. Lawson.
 Kathleen D. Leitch.
 Grace Macnaughton.
 Mary A. M. S. Scott.
 Isabella S. Swanston.
 Helen I. Wilkie.
Eng. iii., Mary E. Barr.
 Mary Bisset.
 Elizabeth B. Davie.
 Elizabeth I. C. H. Mackenzie.
 Jessie S. Macleod.
 Jeanie Ross.
 Grace H. Stevenson.
Mod. Lang. i., Aileen A. Calderwood.
 Isabella Eccles.
 Janet T. Lowe.
 Agnes A. M'Callum.
 Margaret L. Rennie.
 Elizabeth M. D. Watson.
Mod. Lang. ii., Olive A. G. Brown.
 Mary E. Laursen.
 Emma C. Logie.

Agnes G. Neilson.
 Isabella Ross.
 Mabel Strachan.
 Jessie A. M. Weir.
Mod. Lang. iii., Alexandrina M'Lean.
 Christina H. Maxwell.
 Mary G. Wright.
Hist. ii., Vyvyan A. Prain.
 Jane P. C. L. Reid.
 Helen Thomson.

Hist. iii., Dorothy C. MacGregor.
Econ. Sc. i., Shin-Ran Chow.
Econ. Sci. ii., Yun Ying Chan,
 M.B., Ch.B.
 Anoovalil V. P. N. Pillay.
Lat. and Fr. i., Jessie H. Thom.
Lat. and Fr. ii., Jeanie Dawson.
 Agnes C. Harrower.

HONOURS OBTAINED AFTER GRADUATION, 1908—1919.

1909.

Classics iii., John Maxwell Edgar.
Eng. i., George Simpson Marr.
Mod. Lang. ii., Isabella Alison Allan.
Econ. Sc. i., Thos. Geo. Rutherford.

1910.

Eng. ii., Jean Aitken.
 Rachel Brown Campbell.
 Ian Duncan Duff.
Mod. Lang. ii., Mary Stewart Miller
 (allowed extension under section iii., Honours, of "Additional Regulations").

1911.

Classics ii., Geo. Allison Lawrence.
Phil. i., John Macdonald.
Phil. ii., Donald Ross.
Eng. i., Hugh Morison Miller
 (allowed extension).
Mod. Lang. ii., Naomi Logan Black.
Hist. ii., Frederick William Duguid
 Stewart.
Econ. Sc. ii., Samuel Grant Mellis
 Smith.

1912.

Classics ii., John Alexander Mackenzie.
Phil. i., John Alexander Calder.
Eng. i., Jessie Robertson Thomson.
Hist. i., William Bain Gray.
Econ. Sc. i., James Bennett Guild.
Econ. Sc. ii., David Kemp.

1913.

Hist. i., James Braid Taylor.
Hist. ii., Edward Hare.
Lat. and Fr. ii., Jane Johnston
 Alder.

1914.

Classics ii., Edward Geo. M'Alpine.
Phil. iii., Donald William Mackay.
Math. iii., Charles Lawrence Abernethy.
Mod. Lang. i., James Noble.
Hist. ii., Jeremiah Dalziel.
Econ. Sc. i., Arthur Birnie.
 William Harris Myles.
Econ. Sc. ii., Dav. Brown M'Alpine.
 Kona Sitarama Rao.
Econ. Sc. iii., Nadimpalli Venkata
 Lakshmi Narasimha Rao.

1915.

Classics i., Ian Edward de Watteville.
Classics ii., Alexander Hunter.
Math. i., Victor Emmanuel Paske,
 B.Sc.
Eng. i., Frank Ogilvie Stewart.
Eng. iii., Charlotte Elizabeth Wedderburn Thompson.

1916.

Eng. ii., Gladys Mary Best.
Hist. ii., James Greig Shearer.
Econ. Sc. ii., Elizabeth Janet Forrest.

1917.

Math. ii., William T. Eunson.

1918. (None.)

FACULTY OF LAW.

BACHELORS OF LAWS (LL.B.) who graduated
with distinction, 1909—1918.

1909.
Gordon James Lethem, M.A.
Robert Mackay Munro, M.A.
Andrew Myles, M.A.
Hugh Gallie Scott, M.A.
John Small, M.A.
William Wilson, M.A.
John Kerr Wylie, M.A.

1910.
Edwyn Oswald Inglis, M.A.
William Robert Benny M'Jannet,
B.A.
Wilfrid Guild Normand, B.A.
Daniel M'Intyre, M.A.

1911.
Harry Henderson Monteath, M.A.
James Graham Ross, M.A.
Donald Boase Sinclair, B.A.
Walter Haig Stevenson, M.A.

1912.
James Little Mounsey, B.A.
Alexander Low Mustard, M.A.
John Prosser, M.A.

1913.
Vincent Connell Bruce, B.A.
John Robertson Hill, M.A.
Robert Thomson, M.A.

1914.
Charles Marshall Brown, M.A.
Thomas Mackay Cooper, M.A.
Charles Mackintosh, B.A.

1915.
William Robert Blair, M.A.
John Love M'Naughton, M.A.

1916. (None.)

1917. (None.)

1918. (None.)

BACHELORS OF LAW (B.L.) who graduated with
distinction, 1909—1918.

1909.
David Marshall, M.A.

1914.
Robt. Kenyon Letts.

1915.
Reginald James Roche.

1916.
William Joseph Henderson.
Alfred William Hammond Noakes.

FACULTY OF MEDICINE.

DOCTORS OF MEDICINE (M.P.)

Awarded GOLD MEDALS for their Theses, 1909—1918.

1909.
George Francis Stirling Landon,
England.
William Macdougall (M.A.), Scot.

Archibald Currie Macgilchrist
(M.A.), Scotland.
John Pool M'Gowan (M.A., B.Sc.),
Scotland.

Alister Thomas Mackenzie (M.A.),
Scotland.
Chas. Fulton Pattie, New Zealand.

1910.

George Carmichael Low (M.A.),
Scotland.
William Kelman Macdonald, Scot.
William M'Donald Scott, Scotland.
William Halliday Welsh, Scotland.
James Young, Scotland.

1911.

William Boyd, Scotland.
Alexander Ninian Bruce (D.Sc.),
Scotland.
Kenneth Mackenzie, New Zealand.
Samuel Alexander Kinnier Wilson
(M.A., B.Sc.).

1912.

Thomas Graham Brown (B.Sc.),
Scotland.
John Kolbe Milne Dickie, Scot-
land.

John Fraser, Ch.M., Scotland.
Thomas Grainger Stewart, Scot-
land.

1913.

Oliver Henry Blacklay.
William Ewart Bullock (B.Sc.).
George Matthew Robertson.
George Duncan Whyte.

1914.

John Donald Gunn (B.A.).
Sydney Alfred Smith.
Leonard Stephen Willox.

1916.

Chung Ching Wang.
Chung Yik Wong.
Walter Quarry Wood.

1917.

Philip W. MacLagan, Scotland.

1918.* (None.)

MASTERS OF SURGERY (Ch.M.)

Awarded GOLD MEDALS for their Theses, 1909—1916.

1909.

David Percival Dalbreck Wilkie, Scotland.

1910.

John Fraser, Scotland.

1911.

Alexander Pirie Watson (M.A.), Scotland.

1913.

Alexander Philp Mitchell, M.D., Ch.M.

1914, 1915, 1916. (None.)

BACHELORS OF MEDICINE AND BACHELORS OF SURGERY (M.B., Ch.B.), who have Passed the Examinations with HONOURS, 1909—1918.

1909.*

Class I.

William Leslie Burgess, Scotland.
Henry Fleming Hamilton, England.
Robert Coltart Harkness, Scotland.
George Edwin King, England.
John Dykes Wilson, M.A., Scot.

Class II.

Eveline Rosetta Benjamin, Tas-
mania.
Hendrik Adrian Vorster Loots,
Cape Colony.
Alexander Ninian Bruce, D.Sc.,
Scotland.

Alfred William Burton, Cape Colony.

James Argyll Campbell, Australia.

Alfred Moore Elliott, Ireland.

Allan George Hamilton, England.

Thomas Eustace Harwood, B.A., England.

George Russell Inglis, England.

Josiah Howard Lawry, England.

George Edward Gray Mackay, Scotland.

Edward Loggie Middleton, Scot.

James Oag, M.A., Scotland.

John Renwick, Scotland.

Duncan Glennerochie Robertson, Australia.

1910.

Class I.

Francis Gordon Bell, New Zealand.

John Falconer Brown, New Zealand.

Robt. Sharp Lawson (M.A.), Scot.

Class II.

Peter Allan, Scotland.

Robert Marshall Allan, Australia.

James Couper Brash (M.A., B.Sc.), Scotland.

Jemima Brown Dickie, Scotland.

Matthew Robertson Drennan, M.A., Scotland.

John Drummond, New Zealand.

Francis Richard Fraser (B.A.), Scotland.

David Murray Lyon, England.

Claude Bartley Tudehope, New Zealand.

Arthur Macgregor Warwick, Eng.

Chung Yik Wong, China.

1911.

Class I.

Archibald John Bennet, England.

William Campbell, Scotland.

John Tertius Morrison, Scotland.

Class II.

Harry Beddingfield, Scotland.

James Roberts Boyd, Scotland.

Disney Hubert Dusch Cran, Scot.

Ronald Gray Gordon (B.Sc.), Scot.

Harry Foster Holmden, New Zealand.

Peter M'Nab, New Zealand.

Thomas Paterson Noble, Scotland.

Thos. Clark Ritchie (B.Sc.), Scot.

1912.

Class I.

Samuel Burnside Boyd Campbell, Ireland.

Walker Stewart Lindsay (B.A.), Canada.

Edwin Douglas Pullon (B.Sc.), England.

Alan William Stuart Sichel (B.A.), South Africa.

Sydney Alfred Smith, New Zealand.

Arthur Theodore Todd, England.

Class II.

Arthur James Ballantine (B.A.), South Africa.

Francis John Henderson Begg, Scotland.

Gilbert Vere Bogle (B.A.), New Zealand.

William Ewart Bullock (B.Sc.), England.

George Foster Braithwaite Page, England.

James Matthews Duncan Scott (M.A.), Scotland.

1913.

Class I.

Ernest William Adcock, England.

James Norman Jackson Hartley, England.

Thomas Douglas Inch, Scotland.

Thomas Pullar (M.A.), Scotland.

Class II.

Archibald Cowe, Scotland.
 James William Edington, Scotland.
 William Mackenzie, Scotland.
 Wyndham Parker, England.
 Edgar Percival, England.
 Richard Wayland Smith, England.

1914.

Class I.

Robert George Bannerman (M.A.),
 Scotland.
 Ralph Campbell Lindsay Batchelor
 (M.A.), Scotland.
 Peter Maccallum (M.A., M.Sc.),
 New Zealand.
 John Millie Pringle, Scotland.
 Robert Orr Colquhoun Thomson,
 Scotland.

Class II.

John Davey Evans (B.Sc.), Wales.
 Alexander Hugh Dickson Smith,
 Wales.
 David Garrick Wishart, Scotland.

1915.

Class I.

William Brownlie (M.A., B.Sc.),
 New Zealand.
 William Alexander Cochrane, Scot-
 land.
 James Elvins McCartney, England.
 James Whiteford Potter, Scotland.
 James Wilfrid George Hewat
 Riddel, England.

Class II.

James Macmillan Anderson, Scot-
 land.
 Frederick William Watson Baillie,
 Jamaica.
 John Dick, Scotland.
 Edward Fullerton, Ireland.
 Harry Aitken Hewat, Scotland.
 James Ritchie (M.A., M.Sc.), Scot-
 land.
 George Macdonald Scott (M.A.,
 B.Sc.), Scotland.

Charles Gunn Skinner, Scotland.
 Samuel Henry Stewart, Ireland.
 James Matthew Wishart, Scotland.

1916.

Class I.

Andrew James Caird (M.A., B.Sc.),
 Scotland.
 Alfred Vincent Dill, Scotland.
 John James Balmanno Edmond,
 Scotland.
 John Lewis Owen, Australia.
 Benjamin James Ryrie, Scotland.
 Hedley Duncan Wright (B.A.),
 Tasmania.

Class II.

John Bennet, Scotland.
 Gerald Wallace Grant (B.A.),
 Canada.
 William Niven Greer, Ireland.
 Charles Ernest Hill, England.
 James Manuel, Scotland.
 Donald Hugh Paterson (B.A.),
 Canada.
 James Evelyn Phillips, Barbadoes.

1917.

Class I.

John S. Bow, Scotland.
 Robert Mailer, Scotland.

Class II.

John G. Allan, B.Sc., Scotland.
 James E. Hurworth, South Africa.
 Albertus van der Poel, B.A., South
 Africa.
 Susan A. Robertson, New Zealand.
 Jacob Wolfson, South Africa.

1918.

Class I.

Walter T. Benson, B.Sc., India.

Class II.

Alfred L. McIlwaine, Australia.
 Moray Melvin, Scotland.
 John C. Morris, Scotland.
 Henry J. Parish, Scotland.

FACULTY OF MUSIC.

THE DEGREE OF DOCTOR OF MUSIC (Mus.D.)
(by examination).

1913.

Matthew Shirlaw, Mus.B.

DEGREES CONFERRED, 1918—1919.

HONORARY GRADUATES.

THE HONORARY DEGREE OF DOCTOR OF DIVINITY (D.D.)

10th July 1919.

Rev. John Lamond, B.D., Greenside
Parish Church, Edinburgh.Rev. J. D. McCulloch, Principal of
the Free Church College, Edin.Rev. A. M. Maclean, B.D., C.M.G.,
The Abbey, Paisley; Assistant
Principal Chaplain, B.E.F.Rev. J. Harry Miller, M.A., Warden
of New College Settlement, Edin.

Rev. Alex. Ritchie, B.D., Dunblane.

Rev. Canon B. Hillman Streeter,
M.A., Queen's College, Oxford.
The Very Rev. John Skinner
Wilson, M.A., Edinburgh.Rev. Prof. R. G. McIntyre, M.A.,
St Andrew's College, Sydney,
Australia. (*In absentia.*)Rev. J. Ross Stevenson, D.D.,
President of Princeton Theological
Seminary, U.S.A. (*In absentia.*)

THE HONORARY DEGREE OF DOCTOR OF LAWS (LL.D.).

28th May 1919.

Field-Marshal Sir Douglas Haig, K.T.

10th July 1919.

Cyril Ernest Ashford, M.A., C.B.,
M.V.O., Headmaster R.N. Col-
lege, Dartmouth.Gerard Lake Crole, K.C., Sheriff of
the Lothians and Peebles.James Currie, M.A., Ex-Chairman,
Chamber of Commerce, Edin.Alexander Darling, Master of the
Merchant Company, Edinburgh.Emeritus Professor Sir Thomas R.
Fraser, M.D., F.R.S.Alfred Harker, M.A., F.R.S.,
Lecturer in Petrology, Cambridge.

John Harrison, Edinburgh.

The Right Hon. Lord Leverhulme,
F.R.G.S.Sir William S. McCormick, M.A.,
Secretary to the Carnegie Trust
for the Universities of Scotland.

William D. McKay, R.S.A., Edin.

The Hon. Sir Thomas Mackenzie,
K.C.M.G., High Commissioner
for New Zealand.The Right Hon. Sir John Lorne
Macleod, Lord Provost of Edin.Major-General Sir William Grant
Macpherson, C.B., K.C.M.G.,
London.

- Professor Rutherford Morison,
F.R.C.S., Durham University.
The Right Hon. Robt. Munro, K.C.,
M.P., Secretary for Scotland.
Charles David Murray, C.M.G.,
K.C., M.P., Dean of the Faculty
of Advocates.
Professor Diarmid Noël Paton,
F.R.S., University of Glasgow.
Rev. Emeritus Professor John
Patrick, D.D.
Brig.-General Arthur E. Ross, C.B.,
C.M.G., Canada.
Professor Alex. Smith, B.Sc., Ph.D.,
Columbia University, New York.
James Walker, C.A., Edinburgh.
- His Excellency General Sir Reginald
Wingate, G.C.B., G.C.M.G.,
G.B.E., High Commissioner,
Egypt.
Sir Robert P. Wright, F.R.S.E.,
Chairman of the Board of Agri-
culture for Scotland.
The Hon. Sir Robert Younger,
G.B.E., Judge of the High Court,
London.
W. Moir Bryce, Edinburgh. (*In
absentiâ.*)
Rev. Andrew Cameron, B.A., Chan-
cellor, Otago University, New
Zealand. (*In absentiâ.*)
His Eminence Cardinal Désiré
Mercier, Archbishop of Malines.
(*In absentiâ.*)

FACULTY OF ARTS.

THE DEGREE OF DOCTOR OF PHILOSOPHY (D.Phil.).

10th July 1919.

- Rankin, Mary Theresa, M.A. *Thesis*—"Industrial Conciliation and Arti-
tration in Australasia."

THE DEGREE OF BACHELOR OF EDUCATION.

10th July 1919.

- Collins, Mary, M.A. | Thomson, Edith Isobel Millar, M.A.

THE DEGREE OF MASTER OF ARTS (M.A.) with HONOURS.

(See Note of Contractions, p. 672.)

11th October 1918.

- Math. ii.*, Numbers, Annie Hutton, B.Sc.

27th March 1919.

- | | |
|--|---|
| <i>Classics i.</i> , Edie, Robert Miller. | <i>Mod. Lang. i.</i> , Henderson, Janet |
| MacIver, John Christian (Capt.,
A. & S. H.). | M'Kenzie |
| <i>Classics ii.</i> , Ross, Johan. | <i>Lat. and Fr. i.</i> , Smith, Ida Lind-
say. |
| <i>Math. iii.</i> , Campbell, David Cal-
lender. (<i>In absentiâ.</i>) | <i>Lat. and Fr. ii.</i> , Badger, Margaret.
Cumming, Anne Dow. |
| <i>Eng., unclassified (war privilege)</i> ,
Somerville, Hugh (late Capt.,
Manchester Regt.). | <i>Lat. and Fr. iii.</i> , Lawson, Jane
Millar. |

10th July 1919.

Classics, unclassified (war privilege),

Dennler, Hans Leslie.

Phil. i., Reid, Louis Arnaud.*Phil. iii.,* Cuthbert, George.*Math. i.,* Lumsden, Thomas Arnot,
B.Sc.

Reid, Dorothy Annie.

Math. ii., Pyper, Eliza Mary.

Pyper, Henrietta Ann.

Taylor, Agnes Irene.

Eng. i., Clark, Arthur Melville.

Walker, William Alexander.

Eng. ii., Brown, Alice Maud Sander-
son.

Home, Jean Gordon.

Macaulay, Mary Elizabeth.

Macduff, Janet Saunders.

Mackenzie, Catherine.

Passmore, Irene Carden.

Scott, Mary Ann.

Simpson, Annie Caroline.

Steel, Margaret Ramage.

Stuart, Margaret Marie Wilson.

Vincent, Kate Ashmore.

Young, Margaret.

Eng. iii., Drennan, Agnes.

Macpherson, Rachel Thomson.

Robertson, Margaret.

Sinclair, Mary Louise.

Hist. i., Brown, Mary Ayton.*Hist. ii.,* Penman, Helene Jamison

Borthwick Tait.

Hist., unclassified (war privilege),

M'Alpine, Charles Boyd.

Econ. Sc. ii., MacIver, Alice

Margaret.

HONOURS OBTAINED AFTER GRADUATION.*Unclassed (war privilege).**Math.,* Yeatts, William Walter Murray, M.A.*Mod. Lang.,* Kinnes, James Ramsay, M.A.*Hist.,* Lislop, Francis Daniel, M.A.**ORDINARY DEGREE OF MASTER OF ARTS (M.A.).**

11th October 1918.

Anderson, James.

Bryson, Jenny.

Calder, Donald Macdonald.

Cheng, Chen Chi.

5 Coskry, Margaret Groves.

Craig, Alice Carmichael.

Ham, Anne.

Hewitt, Jane Helen.

Lillico, Jeanie Eleanor.

10 Swan, Anna Margaret.

18th December 1918.

Bell, Edwin Archibald. B.Sc. (Agric.) (Staff Captain, Heavy Artillery).

27th March 1919.

Anderson, Charles Ian (late
Lieut., R.G.A.).

Azmatullah, Mohmed.

Gibb, Hamilton Alexander Ross-
keen (Capt., R.F.A.). (*In*
absentia.)Henderson, Charles Lamond
(late Lieut. and Adj., Bed-
fordshire Regiment).5 Kelly, Jessie MacIntosh
M'Kerlie, Kelso.Kennedy, Norman Dougall
(Capt., K.O.S.B.). (*In*
absentia.)MacIver, Lewis James (late
Capt., A. & S. H.).MacPherson, Malcolm Munro
(late Capt., Commanding 25th
Labour Coy.).Macrae, Angus (Lieut., Seaforth
Highlanders).

10 Pike, James Lyford, B.Sc.

Simpson, Robert Francis (Lieut.,
Gordon Highlanders). (*In*
absentia.)

Sinclair, George Alexander.

Walinek, Charles Dods (late
Lieut., R.A.F.).

10th July 1919.

- Allan, James.
 Anderson, Hope Pitcairn.
 Black, Mary Grace Caldwell.
 Brown, Harry Gamble (Capt.,
 Mach. Gun Corps). (*In
 absentia.*)
- 5 Bruce, Margaret Cruickshanks.
 Butter, Andrew James Moyes.
 Calver, Douglas Edward.
 Chisholm, Muriel Charlotte.
 Coghill, Mary Mackay Dunnet
- 10 Cormack, Georgina.
 Corse, Tennie Roberta.
 Couper, Mary Morrison.
 Cowan, William (C. F.). (*In
 absentia.*)
 Cowper, Doris Janet.
- 15 Dandie, James Naughton.
 Dickson, Katherine.
 Dinwiddie, James Linton Norris.
 Donald, Henry.
 Duffes, Hilda Ethel Paterson.
 (*In absentia.*)
- 20 Dunbar, Jessie Diana.
 Finnie, David.
 Forbes, James.
 Fowler, William Alexander.
 Gillies, William Forman.
- 25 Gould, John.
 Grant, James Kennedy.
 Grant, Stanley Noel.
 Gray, Helen Isobel Allan.
 Harrold, Isabella Macadam.
- 30 Hendrie, Joseph.
 Hopkirk, Dudley Stuart.
 Hossack, James.
 Hunter, John Crabbe Templeton.
 Jarvis, Vida May.
- 35 Kennedy, Alexander.
 King, Wilhelmina.
 Law, Winifred.
 Lawrie, James Russell.
- Leask, James Bruce. (*In
 absentia.*)
- 40 Lindsay, Mary Milroy.
 Macdonald, Enid.
 M'Intosh, Alexander Philip.
 Mackenzie, Barbara.
 M'Phail, Annie Ross.
- 45 MacRae, Elizabeth.
 Mabbott, John David.
 Messer, Andrew Isaac.
 Miller, Margaret Stevenson.
 Mitchell, John.
- 50 Nairn, David Robertson.
 Nicoll, William Andrew.
 Norrie, Margaret Taylor.
 O'Riordan, Kathleen.
 Parvatisam, Pappu.
- 55 Philp, Elizabeth Smith.
 Porteous, Annie.
 Pryde, Robert Beveridge.
 Redden, James Charles Nelson.
 Rose, Marguerite Elder.
- 60 Russell, John Blake.
 Scott, Annie Batchan Angus.
 Scott, James Aaron.
 Sherriff, Thomas Chalmers.
 Simpson, George Wright.
- 65 Smith, Frederick Thomson.
 Smith, Jean Lorrain.
 Smith, Marion Hacro.
 Somerville, Mary Clark Tweedie.
 Steele, James Torrance. (*In
 absentia.*)
- 70 Stewart, Margaret Jane Beattie.
 Storrie, Bessie Margaret Hamil-
 ton Lowson.
 Sutherland, Mary Elizabeth
 Rule.
 Taylor, Mary Isabella.
 Watson, John.
- 75 Watt, Robert Ritchie.
 Whitehead, William.

FACULTY OF SCIENCE.

DEGREE OF DOCTOR OF SCIENCE (D.Sc.).

In the Department of Pure Science.

27th March 1919.

Levy, Hyman, M.A., B.Sc. Thesis—"The Application of Hydrodynamics to Aeronautical Problems."

THE DEGREE OF BACHELOR OF SCIENCE (B.Sc.).

In Pure Science.

18th December 1918.

Lockhart, Thomas Thomson Rankin, M.C., M.A. (Captain, Royal Engineers). (*In absentia.*)
Thomson, James Leslie.

27th March 1919.

Thompson, Ian Maclaren.

10th July 1919.

Buchanan, Rhoda Robertson Carr, M.A.	Master, Kaikhusrov Ardeshir.
Calderwood, Nora Isobel.	Mitchell, Robert Kay Sabiston.
Chisholm, Muriel Charlotte, M.A.	Morrison, Agnes Paterson, M.A.
Clarke, Agnes Amelia Florence.	Parvatisam, Pappu, M.A.
5 Coull, Robert (Lieut, Royal Scots).	15 Pyper, Henrietta Ann, M.A.
Gillies, William Forman, M.A.	Reid, Dorothy Annie, M.A.
Kilgour, Margaret Brown, M.A.	Scarlett, Olive Worth.
Leslie, John.	Shiels, Jean Halliday.
Mackenzie, Mary Russell.	Watson, Stanley, D.S.O., M.C. (Capt., Cheshire Regt.). (<i>In absentia.</i>)
10 Mackenzie, Thomas, M.A.	20 Wilson, Donald Cumming.

In the Department of Engineering.

18th December 1918.

1 Christie, James Reginald.

27th March 1919.

2 Clements, Thomas Edwin.

10th July 1919.

Fraser, Duncan Menzies.
Georgeson, Elizabeth Helen MacLeod.
Hill, Robert.

1 With Distinction in the subject of Engineering.

2 With Distinction in the subject of Engineering Drawing.

In the Department of Agriculture.*27th March 1919.*

Economides, Panayotti	George.	M'Millan, James Athole.
(<i>In absentia.</i>)		Smith, John Mitchell.
Mackinnon, Eric.		

10th July 1919.

Macfarlane, Peter Reid Chalmers

In the Department of Forestry.*10th July 1919.*

Anderson, Mark Loudon.	Broadwood, Robert Grant, M.C.
Bain, Francis Oliver.	Downie, Dorothy Gladstone, B.Sc.
Bell, Edwin Archibald, M.A., B.Sc.	(Pure Sc.).
(Agriculture), (Capt., R.A.).	

In the Department of Veterinary Science.*10th July 1919.*

Mitchell, William McGregor.

FACULTY OF DIVINITY**DEGREE OF BACHELOR OF DIVINITY (B.D.).***11th October 1918.*

Ford, Reuben Chambers, M.A. | Richers, Joseph Edward, M.A.

27th March 1919.

Turnbull, Robert Wilson, M.A.

FACULTY OF LAW.**THE DEGREE OF BACHELOR OF LAWS (LL.B.).***27th March 1919.*

Cooper, James Murray, M.A.

1st May 1919.

Wakelin, James Glencorse, O.B.E., M.A. (Capt., Royal Scots Fusiliers).

THE DEGREE OF BACHELOR OF LAW.

27th March 1919.

- | | |
|--|---|
| ¹ Brown, Harold George Castellan. | Scott, William Dalgleish. (<i>In absentia.</i>) |
| Kirsopp, Edgar Craig Buchanan. | |
| ¹ Matley, Charles Stuart. | |

FACULTY OF MEDICINE.

THE DEGREE OF DOCTOR OF MEDICINE (M.D.)
with the Titles of the Theses.** *Highly commended for their Theses.** *Commended for their Theses.*

18th December 1918.

- Brydon, Adam Gibson, Scotland, M.B., Ch.B., 1900 (Capt., A.A.M.C.),
Anæsthesia in War Surgery.
- Crisp, Thomas, Australia, M.B., Ch.B., 1916 (Capt., R.A.M.C.). Shell
Concussion, "Shell Shock," and allied conditions, result of war strain,
or the Psycho-Neuroses of the War.
- Dukes, Cuthbert Esquire, England, M.B., Ch.B., 1914 (Capt., R.A.M.C.).
The Effect of Severe Hæmorrhage and Shock on the Condition of the
Blood. (*In absentia.*)
- MacGibbon, Thomas Arthur, B.A., B.Sc. (N.Z.), New Zealand, M.B.,
Ch.B., 1905. Some Observations on Tonsils. (*In absentia.*)
- Stott, James Robert, B.Sc., Scotland, M.B., Ch.B., 1910 (Capt., R.A.M.C.).
A Suggestion that the Toxins of the Alimentary Tract in Chronic
Constipation may have an influence on the Pathogenesis of Lesions of
the Central Nervous System. (*In absentia.*)
- Young, William Allan, D.S.O., Scotland, M.B., Ch.B. (with Second-
Class Honours), 1908 (Capt., R.A.M.C.). The Early Diagnosis of
Syphilis by Laboratory Methods.

10th July 1919.

- * Alport, Arthur Cecil, England, M.B., Ch.B., 1905 (Capt., R.A.M.C.).
The Diagnosis of Pulmonary Tuberculosis in its Early Stages.
(*In absentia.*)
- ** Archibald, Robert George, D.S.O., India, M.B., Ch.B., 1902 (Major,
R.A.M.C.). Kala Azar, with special reference to its occurrence in
the Sudan.
- * Bannerman, Robert George (M.A.), Scotland, M.B., Ch.B. (with First-
Class Honours), 1914. The Colloidal Gold Reaction: A contribu-
tion to Serology.

1 Passed with Distinction.

- Barnardo, Frederick Adolphus Fleming, C.I.E. (M.A.), England, M.B., Ch.B., 1899 (Colonel, I.M.S.). The Co-relation of the Ductless Glands and the Onset of Labour. (*In absentia*.)
- *Bramwell, Edwin, England, M.B., C.M., 1896. Encephalitis Lethargica and a Note of other cases very possibly dependent upon the same Pathological Virus.
- Bremner, Frederick Russell (M.A.), Scotland, M.B., C.M., 1903. On certain aspects of Gas Poisoning in War: Being observations on Effects, Treatment, Bacteriology. (*In absentia*.)
- Buist, Arthur William Tremineere, Scotland, M.B., C.M., 1888 (Lt.-Col., I.M.S.). Litholapaxy in the Punjab. (*In absentia*.)
- **Callender, Duncan Macnab (M.A.), Scotland, M.B., Ch.B., 1902. Complications of Dysentery, with special reference to Arthritis. (*In absentia*.)
- *Cran, Disney Hubert Dusch, Scotland, M.B., Ch.B. (with Second-Class Honours), 1911. Influenza: Clinical Notes on 50 Cases, with Pathological and Bacteriological Observations on 100 Autopsies.
- *Fitzgerald, Gerald, Scotland, M.B., C.M. (with First-Class Honours), 1890. Occupation and Physical Condition of Workers in the City of London.
- Harry, Walter Benjamin, Wales, M.B., C.M., 1891. Diphtheria.
- *Hearne, Kenneth Goodall, Australia, M.B., Ch.B., 1911. Hyperpyrexial Heatstroke: Its Etiology, Prevention, and Treatment.
- Hogarth, James Burnett, England, M.B., Ch.B., 1914. Observations on Wound Treatment by means of Eusol, with special reference to the methods of Continuous Irrigation and Lavage.
- Johnston, Matthew James, Ireland, M.B., Ch.B., 1907. Pulmonary Tuberculosis in Children, with special reference to the diagnosis and treatment by Auto-Inoculation. (*In absentia*.)
- *Lawson, Robert, Scotland, M.B., Ch.B., 1915. Some observations on the Causes, Actual Condition, and Suggested Lines of Treatment of Disorderly Action of the Heart (D.A.H.) as found in Soldiers on the Western Front.
- Middleton, Edward Loggie, Scotland, M.B., Ch.B. (with Second-Class Honours), 1909. Silicosis: with special reference to its causation in certain industries and trade processes.
- Murray, Ronald Roderick, Scotland, M.B., Ch.B., 1905. African Tick Fever. (*In absentia*.)
- *Parkes, William Henry, C.B.E., C.M.G., New Zealand, M.B., C.M., 1892 (Colonel, N.Z.M.C.). Some Observations upon Epidemic Respiratory Diseases in the New Zealand Expeditionary Force, with special reference to Purulent Bronchitis. (*In absentia*.)
- Rao, Dhanavada Samuel Ramachandra (M.A.), India, M.B., Ch.B., 1905. Trachoma: Its nature and treatment, with special reference to India. (*In absentia*.)
- Romanes, Archibald (M.A.), Scotland, M.B., Ch.B., 1912. The Prophylactic Value of Inoculation in General Communities during Epidemic Prevalence of Typhoid Fever.
- Sichel, Alan William Stuart (B.A.), South Africa, M.B., Ch.B. (with First-Class Honours), 1912. The Incidence of Conjunctivitis, with special reference to Trachoma.

- Stevenson, Robert Scott, Scotland, M.B., Ch.B., 1912. The Treatment of Placenta Prævia.
- Stewart, Samuel Henry, Ireland, M.B., Ch.B., 1915 (with Second-Class Honours). A Clinical and Pathological Study of Tuberculosis in Children.
- *White, Edmund Leigh, England, M.B., Ch.B., 1914. Undulant or Malta Fever.

THE DEGREE OF MASTER OF SURGERY (Ch.M.).

*** Awarded Gold Medal for Thesis.

- ***GRAHAM, JAMES METHUEN, Scotland, M.B., Ch.B., 1904. Experimental and Clinical Observations on Transfusion of Blood.

DEGREES OF BACHELOR OF MEDICINE AND BACHELOR OF SURGERY (M.B. and Ch.B.).

Small CAPITALS indicate First-Class Honours.

Italics, Second-Class Honours.

11th October 1918.

- | | |
|-------------------------------------|--|
| Anderson, Catherine Jean, Scotland. | 5 Lipschitz, Max, South Africa. |
| Carleton, Gladys Clara, India. | Maja, Akinola, West Africa. |
| Grant, Arthur Balfour, Scotland. | Sash, Max, South Africa. |
| Lim, Han Hoe, Straits Settlements. | Theunissen, Eugène Benjamin, South Africa. |

18th December 1918.

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|---|---|
| Boltman, Robert Frederick, South Africa. | Eccott, Walter Yardley, England (Capt., R.S. Cadet Bn.). |
| Brayshaw, Harold Currie, South Africa. | Fahmy, Ernest Chalmers, Scotland (late Sergt., R.F.A.). |
| Brown, Eric Barlow, England (Capt., Loyal North Lancs.). | Gordon, Edgard Fitzgerald, Trinidad. |
| Cameron, Donald Hugh, M.A., Scotland (Surg., Sub-Lieut., R.N.V.R.). | Graaff, Novbertus David Peter de Villiers, South Africa. |
| 5 Chonglop, Edward, China. | 15 Gunn, George Herbert, Scotland (late 2nd Lieut., Gordon Highlanders.). |
| Chow, Albert Chen Yu, China. | Hughes, Griffith John, Wales. |
| Cole, James M'Murray, New Zealand. | Innes, Laurence Walrond, Scotland (Capt., T.F.Res., late R.S.). |
| Crosbie, Kenneth Christopher, M.C., Eng. (Lieut. R.F.A.). | Johnston, Norman William, Scotland. |
| Daniel, Henry Norman, England (2nd Lieut., R.F.A.). | Joseph, Edward Gordon, New Zealand (late Otago Mtd. Rifles). |
| 10 Dyk, Cornelis Godfrey Lodewyk van, South Africa. | |

- 20 Lowden, Thomas Wedgwood,
South Africa.
MacDonald, Anne Louisa,
Scotland.
McIlwaine, Alfred Lindsay,
Australia (Capt., Northumber-
land Fusiliers).
- Mitchell, James Kenneth, Scot-
land.
Nicholson, George, England
(Lieut., R.F.A.).
25 Platzky, Israel, South Africa.
Wessels, Johannes Jacobus,
South Africa.

10th July 1919.

- Anderson, Henry Morris, Hong
Kong.
Armit, Adam, Scotland.
Badenoch, Alfred, Scotland.
Berelowitz, Harry, South Africa.
5 Binnie, John James Rouse,
Scotland.
BLOOMFIELD, ALICE, Scotland.
Booker, Charles George, South
Africa.
Brodie, Peter Martin, Scotland.
Brown, Cecil Carron, Scotland.
10 Burnie, Robert M'Call, Scotland.
DAVIDSON, LEYBOURNE STAN-
LEY PATRICK, Scotland.
Deane, Frederick John, Ireland.
Denham, Arthur Armstrong,
England.
Galloway, Robert Lightbody,
Scotland.
15 Gillis, Kurt, South Africa.
Goldberg, Morris, South Africa.
Harris, Arthur Trevenning,
England.
Harris, Marjorie, England.
Hole, Cecil Edith Lyster, India.
20 Katariya, Jiwanda Ram, India.
King, Marjorie Hamilton, Scot.
LANGLEY, RAYMOND LESLIE,
M.A., England.
Lim, Robert Kho Seng, Straits
Settlements.
LUCKRAFT, HARRY STEPHENSON,
Australia.
25 Macartney, John Charles, Ire-
land.
M'Intyre, James, B.Sc., Scot-
land.
MacKenzie, Ella Grace Florence,
M.A. (Allahabad), India.
Mackenzie, Ronald Douglas,
Scotland.
- Macnair, Robert, Scotland.
30 Macnaughton, Mona, M.A.,
Scotland.
M'Vicker, Elizabeth, Ireland.
Martin, Mabel Stevenson, Scot-
land.
Maxwell, George Henry Hope,
Scotland. (*In absentia*).
Meiring, Jacobus Hugo, South
Africa.
35 Moll, Abraham Marais, B.A.
(Cape), South Africa.
Murray, John Oliver, Scotland.
Musto, Arthur Vincent Tread-
well, South Africa.
O'Dowd, Edward Paul, Ireland.
Panikker, Aerath Narayanan
Nanoo, India.
40 Patterson, Clifford William,
Tasmania.
Payn, John Redwood, South
Africa.
Plowman, Howard Sidney,
South Africa.
Ponder, Eric Haldane, Scotland.
Poole, Mary Simpson (*née* Pater-
son), England.
45 Robson, William Gordon, M.A.,
Scotland.
Russell, Beatrice Annie Sybil,
Scotland.
Sandilands, Richard, B.Sc.,
Scotland.
Sheriff, Mahmoud Zaky, Egypt.
Simpson, Bertie Soutar, Scotland.
50 Slack, Wm. Augustus, St Kitts.
Stookes, Valentine Alexander,
B.Sc. (St And.), England.
Towers, Arthur Kinsey, England.
Tun, Maung Sein, B.A. (Cal-
cutta), Burmah.
Uys, Petrus Cornelius, S. Africa.

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| 55 Villiers, Jakob Rudolph de,
South Africa.
Waller, George Ronald, South
Africa.
Watson, Robert Boog, Scotland. | Weatherhead, Alfred George
Norton, Scotland.
Westwater, John Sinclair, Scot.
60 Wilson, James Leslie, Scotland.
Yuille, Duncan Ferguson, Scot. |
|--|--|

DIPLOMAS, ETC., CONFERRED.

FACULTY OF ARTS.

DIPLOMA IN EDUCATION.

10th July 1919.

- | | |
|--|--|
| Ayre, Ruby Andrews Stewart,
M.A.
Bisset, Elizabeth Grieve, M.A.
Cuthell, Elizabeth, M.A. (<i>In</i>
<i>absentia.</i>)
Digney, Bessie Hunter Mackie,
M.A.
5 Hewitt, Jane Helen, M.A. | Kennedy, Mary Margaret
(Oxon.).
Kinnaird, Margaret Isabella,
M.A.
Nixon, Esther Warwick, M.A.
Norrie, Margaret Taylor, M.A.
10 Ross, Elizabeth Linklater Stir-
ling, M.A. |
|--|--|

FACULTY OF SCIENCE.

CERTIFICATE IN FORESTRY.

- Crosbie, Hazen Walter (Cpl., Canadian Mounted Rifles). (*In absentia.*)

FACULTY OF MEDICINE.

DIPLOMA IN TROPICAL MEDICINE AND HYGIENE.

27th March 1919.

- Whyte, Charles Alexander, L.R.C.P. & S. Ed., &c.

10th July 1919.

- Bremner, Alexander, M.B., Ch.B. (*In absentia.*)

SUMMARY OF DEGREES CONFERRED IN EACH FACULTY.

Number of Graduates with Honours. Number of Honorary Graduates.—1918-1919.

FACULTY OF ARTS.

	Men.	Women.
Degree of Doctor of Philosophy (D.Phil.) . . .	...	1
Degree of Doctor of Letters (D.Litt.) . . .	...	...
Degree of Bachelor of Education (Ed.B.) . . .	...	2
Degree of Master of Arts (M.A.) :—		
1. With Honours—		
In Classics—		
First Class	2	...
Second Class . . . . .	...	1
Unclassed (War Privilege)	1	...
In Mental Philosophy—		
First Class	1	...
Second Class . . . . .	...	...
Third Class	1	...
In Mathematics and Natural Philosophy—		
First Class	1	1
Second Class . . . . .	...	4
Third Class	1	...
In English—		
First Class	2	...
Second Class . . . . .	...	12
Third Class . . . . .	...	4
Unclassed (War Privilege)	1	...
In Modern Languages and Literature—		
First Class . . . . .	...	1
Second Class . . . . .	...	...
In History—		
First Class . . . . .	...	1
Second Class . . . . .	...	1
Unclassed (War Privilege)	1	...
In Economic Science—		
First Class . . . . .	...	...
Second Class . . . . .	...	1
In Latin and French—		
First Class . . . . .	...	1
Second Class . . . . .	...	2
Third Class . . . . .	...	1
In Semitic Languages—		
First Class . . . . .	...	...
Second Class . . . . .	...	...
2. Ordinary Degree	56	44
	<u>67</u>	<u>77</u>

FACULTY OF SCIENCE.

	Men.	Women.
Degree of Doctor of Science (D.Sc.) :—		
In Pure Science	1	...
In Engineering . . . . .	...	...
In Public Health . . . . .	...	...
In Veterinary Science . . . . .	...	...
Degree of Bachelor of Science (B.Sc.) :—		
In Pure Science	12	11
In Engineering	4	1
In Public Health . . . . .	...	...
In Agriculture	5	...
In Forestry	4	1
In Veterinary Science	1	...
	<u>27</u>	<u>13</u>

FACULTY OF DIVINITY.

Honorary Degree of Doctor of Divinity (D.D.)	9	...
Degree of Bachelor of Divinity (B.D.)	3	...
	<u>12</u>	<u>...</u>

FACULTY OF LAW.

Honorary Degree of Doctor of Laws (LL.D.)	28	...
Degree of Bachelor of Laws (LL.B.) :—		
1. With Distinction . . . . .	...	...
2. Ordinary Degree	2	...
Degree of Bachelor of Law (B.L.) :—		
1. With Distinction	2	...
2. Ordinary Degree	2	...
	<u>34</u>	<u>...</u>

FACULTY OF MEDICINE.

Degree of Doctor of Medicine (M.D.)	30	...
Degree of Master of Surgery (Ch.M.)	1	...
Degrees of Bachelor of Medicine and Master in Surgery (M.B. and C.M.) under Regulations in force prior to 1st October 1892	...	...
Degrees of Bachelor of Medicine and Bachelor of Surgery (M.B. and Ch.B.)	82	13
	<u>113</u>	<u>13</u>

FACULTY OF MUSIC.

Degree of Doctor of Music (Mus.D.) :—		
1. Honorary . . . . .	...	...
2. After Examination . . . . .	...	...
Degree of Bachelor of Music (Mus.B.)	...	...
	<u>...</u>	<u>...</u>

CLASS MERIT LISTS.

ACADEMIC YEAR 1918-1919

FACULTY OF ARTS.

LATIN.

Honours Class.

First-Class Certificate.

Ida L. Smith, Portobello.

Second-Class Certificates.

Margaret Badger, Selkirk.

Robert M. Edie, Inveresk.

John C. MacIver, Islay.

Johan Ross, Edinburgh.

Prose Composition.

1 Ida L. Smith.

2 John C. MacIver.

English Essay.

1 Robert M. Edie.

2 John C. MacIver.

History of Literature.

1 Ida L. Smith.

1 Margaret Badger.

First Ordinary Course.

First-Class Certificates.

1 Alison E. Foster, Edinburgh.

2 William F. Inglis, Auchterarder.

3 Alexander Jenkins, Ayr.

4 David B. Horn, Liberton.

5 Edith A. Gibson, Leith.

The following, absent in the First Term on war service, obtained *First Class Certificates* on Two Terms' work :—

J. N. C. Clark, Edinburgh.

J. S. W. Reid, Leith.

Ian W. M'Innes, Leven.

Richard Snedden, Edinburgh.

James Lessells, Dunfermline.

Second-Class Certificates (in alphabetical order).

Irene A. Cowley, Methil.
 Elizabeth B. Hunter, Forfar.
 Effie T. Mackay, Maybole.
 William R. Murie, Perth.

Alice R. Paterson, Greenlaw.
 Margaret L. Telfer, Tarbet.
 Thomas M. Telford, Sprouston.

and on Two Terms' work :—

John M. Lewars, Edinburgh.

Andrew G.W. MacBeath, Edinburgh.

Noel J. G. Smith, Edinburgh.

Prose Composition.

1 Alison E. Foster.

2 Alexander Jenkins.

3 William F. Inglis.

History.

1 { David B. Horn.
 William F. Inglis.
 Ian W. M'Innes.

Literature.

William F. Inglis.

Honours Half-Course (Summer).*First-Class Certificate.*

1 Henry T. Deas, Kirkcaldy.

2 James Farquhar, New Pitsligo.

3 Anne G. Armit, Monikie.

4 John D. Mabbott, Duns.

Second-Class Certificates.

5 James W. Fergusson, Dundee.

6 Charles I. Anderson, Edinburgh.

7 Marjorie A. Chaplyn, Edinburgh.

8 John S. M'Laren, Alness.

Prose Composition.

1 H. T. Deas, Kirkcaldy.

2 Roderick A. James, Trinidad.

JAMES MILL, M.A., *Lecturer.*

GREEK.**Honours Class.***First-Class Certificates.*

1 John C. MacIver, Islay (*Scott and Dunbar Prize*).

{ H. T. Deas, Kirkcaldy.

{ R. M. Edie, Inveresk.

2 { Johan Ross, Edinburgh.

{ J. Scott Brown, Edinburgh.

6 { John Mabbott, Duns.

{ David Milne, Edinburgh.

{ James Farquhar, New Pitsligo.

{ C. C. Jenkins, Ayr.

Second-Class Certificates.

- | | |
|-----------------------------------|--------------------------------------|
| 10 John Cameron, Edinburgh. | 12 Charles Stewart, Inverness. |
| 11 Arthur S. Paterson, Edinburgh. | 13 David L. MacIntyre, Corstorphine. |

Ordinary Class.*First-Class Certificates.*

- | | |
|---|-------------------------|
| 1 Alexander Jenkins, Ayr
(Butcher Memorial Prize). | 3 W. R. Murie, Perth. |
| 2 W. F. Inglis, Perth. | 4 T. M. Telford, Kelso. |

Second-Class Certificates.

- | | |
|---------------------------------|-------------------------------|
| 5 Helen F. M'Tavish, Edinburgh. | 8 Thomas L. Leishman, Linton. |
| 6 D. S. Macdonald, Dunfermline. | 9 D. G. Bisset, Montrose. |
| 7 James K. Grant, Edinburgh. | 10 T. H. Burns Begg, Kinross. |

First-Class Certificates on two Terms.

- | | |
|---------------------------------|--|
| J. N. C. Clark, Edinburgh. | James Lessels, Dunfermline. |
| Roger A. M. Davidson, Kinfauns. | M. R. Nicolson, Edinburgh (Second Attendance). |

Second-Class Certificates on two Terms.

- | | |
|-------------------------------|--------------------------------|
| A. G. W. Macbeath, Edinburgh. | John S. Macpherson, Edinburgh. |
|-------------------------------|--------------------------------|

Honours Half-Course (Summer Term).*First-Class Certificates (arranged alphabetically).*

- | | |
|--------------------------------|--------------------------------|
| Annie G. Armit, Monikie. | R. A. James, Trinidad. |
| E. A. Armstrong, St Fillans. | C. C. Jenkins, Ayr. |
| J. Scott Brown, Edinburgh. | John D. Mabbott, Duns. |
| John Cameron, Edinburgh. | David Milne, Edinburgh. |
| H. T. Deas, Kirkcaldy. | Arthur S. Paterson, Edinburgh. |
| James Farquhar, New Pittsligo. | Charles Stewart, Inverness. |

Second-Class Certificates.

- | | |
|----------------------------|------------------------|
| C. I. Anderson, Edinburgh. | D. L. Smith, Montrose. |
| K. M. Ferguson, Heriot. | Helen White, Shetland. |
| C. E. G. Guest, Edinburgh. | |

A. W. MAIR, Litt.D., *Professor.*

REHETORIC AND ENGLISH LITERATURE.

Honours Class—Winter Session.

FIRST ATTENDANCE.

First-Class Certificates.

- | | |
|--------------------------------------|---------------------------------------|
| 1 Hilda M. A. Knott, Edin-
burgh. | 2 Laureston W. Sharp, Edin-
burgh. |
|--------------------------------------|---------------------------------------|

Second-Class Certificates.

- | | |
|----------------------------|---|
| 3 Mary E. Bain, Chirnside. | 4 Cecilia M. Calder, Tilli-
coultry. |
|----------------------------|---|

SECOND ATTENDANCE.

First-Class Certificates.

- | | |
|--|---|
| 1 Irene Passmore, Barnstaple,
N. Devon. | 3 Mary A. Scott, North Ronald-
shay, Orkney. |
| 2 Kate A. Vincent, Rother-
ham. | 4 Catherine Mackenzie, Tain. |
| | 5 Margaret M. W. Stuart, Edin-
burgh. |

Second-Class Certificates.

- | | |
|-------------------------------------|---------------------------------------|
| 6 Mary E. Macaulay, Edin-
burgh. | 7 Margaret Young, Edinburgh. |
| | 8 Margaret R. Steele, Edin-
burgh. |

Ordinary Class—Second Course (Three Terms).

First-Class Certificates.

- | | |
|-------------------------------|--------------------------------|
| 1 Jessie Galloway, Edinburgh. | 2 Mary G. Grierson, Edinburgh. |
|-------------------------------|--------------------------------|

Second-Class Certificates.

- | | |
|---------------------------------------|---|
| 3 Annie C. M. Fyfe, Carlisle. | 6 Margaret J. B. Stewart, Edin-
burgh. |
| 4 K. T. Sen, Shanghai. | 7 Juliette M. Turner, Edin-
burgh. |
| 5 Jean Lorrain Smith, Edin-
burgh. | |

Second Course (Three Terms).

ESSAYS.

First-Class Certificates.

- | | |
|--|---------------------|
| 1 Jean Lorrain Smith (<i>Prize</i>). | 3 Mary G. Grierson. |
| 2 Jessie Galloway. | 4 K. T. Sen. |

Second-Class Certificates.

- | | |
|-----------------------|---------------------------|
| 5 Annie C. M. Fyfe. | 7 Margaret J. B. Stewart. |
| 6 Juliette M. Turner. | |

Ordinary Class—First Course (Three Terms).

First-Class Certificates.

- | | |
|----------------------------------|--------------------------------------|
| 1 Mary J. Macnab, Perth. | 6 Ellinor W. Fairweather, Kirkcaldy. |
| 2 Ursula D. Herdman, Edinburgh. | 7 Margaret Macleod, Edinburgh. |
| 3 Charles N. Taylor, Orkney. | 8 { Mary W. Smith, Shetland. |
| 4 Harriet G. Leitch, Coldstream. | 8 { Mary S. Gardiner, Haddington. |
| 5 Alison E. Foster, Edinburgh. | |

Second-Class Certificates.

- | | |
|--|---|
| 10 Enid Mason, Gateshead. | 22 Marjorie G. Brown, Fife. |
| 11 Lillias Greig, Leith. | 23 Margaret H. Kidd, Bo'ness. |
| 12 Donaldina Forbes, Ross-shire. | 24 { Mary S. Edward, Cockenzie. |
| 13 Gladys M. Miller, Kirkcudbright. | 24 { Janet Robb, Edinburgh. |
| 14 Grace N. Hay, Edinburgh. | 26 { Irene A. Cowley, Methil. |
| 15 Georgina Cormack, Thurso. | 26 { Lauderdale Mary Hunter, Prestonkirk. |
| 16 Mary A. B. Crighton, Kirriemuir. | 28 Catherine I. Neil, Fettercairn. |
| 17 Elspeth J. Boog-Watson, Edinburgh. | 29 Ruth R. B. Adamson, Arbuth. |
| 18 Elsie G. Rodger, Burntisland. | 30 Isabel M. Agnew, Dunbar. |
| 19 Evelyn Mary Ogilvie, Trinity. | 31 Wm. H. Coghill, Thurso. |
| 20 { Margaret E. Cattell - Jones, Edinburgh. | 32 Wm. S. Humphreys, Liverpool. |
| 20 { Winifred Law, Leith. | 33 David M. Penman, Musselburgh. |

First Course (Three Terms).

ESSAYS.

First-Class Certificates.

- | | | |
|-------------------------|------------------|-----------------------|
| Mary J. Macnab. | } <i>Prizes.</i> | Mary S. Gardiner. |
| Elspeth J. Boog-Watson. | | Harriet G. Leitch. |
| Mary A. B. Crighton. | | Margaret Macleod. |
| Mary S. Edmond. | | Jessie A. Mactaggart. |
| Agnes Fleming. | | Charles N. Taylor. |

Second-Class Certificates (in alphabetical order).

- | | |
|--------------------|--------------------|
| Marjorie J. Brown. | Grace Norah Hay. |
| Wm. H. Coghill. | Enid Mason. |
| Irene A. Cowley. | Gladys M. Miller. |
| Margaret Doonan. | Evelyn M. Ogilvie. |
| Alison E. Foster. | Janet Robb. |
| James K. Grant. | Elsie Rodger. |
| Lillias Greig. | |

Two Terms—after signing of Armistice.

Second Course.

Second-Class Certificate.

Gordon A. Ryrie, Montrose.

CLASS MERIT LISTS

ESSAYS.

First-Class Certificate.

Joseph Hendrie, Edinburgh.

Second-Class Certificate.

Gordon A. Ryrie, Montrose.

First Course.

First-Class Certificates.

- | | |
|---|-----------------------------|
| 1 Charles Sarolea, Edinburgh. | 3 James Hossack, Edinburgh. |
| 2 John F. Mackenzie, Colinton, Edinburgh. | |

Second-Class Certificates.

- | | |
|---|--|
| 4 John B. Gregory, Dunedin, Kilmacollm. | 11 { Douglas P. Bliss, Edinburgh. |
| 5 Hugh E. Fraser, Edinburgh. | { W. Allan M'Phee, Edinburgh. |
| 6 Robert H. S. Calver, Edin. | { Andrew Messer, Lemington-on-Tyne. |
| 7 { Earle Douglas Macphee, Canada. | 13 { Charles D. Rogers, Dunkeld. |
| { William F. Mitchell, Stirling. | { W. Mackenzie Scott. |
| { Robert Strang, Stirling. | 16 Norman G. W. Anderson, Newport, Fife. |
| 10 John M'Menemy, Edinburgh. | |

ESSAYS.

First-Class Certificates.

- | | |
|--|---|
| Prizes—Charles Sarolea, Edinburgh, and Robert H. S. Calver, Edinburgh. | |
| Norman G. Anderson, Newport, Fife. | James Hossack, Edinburgh. |
| Douglas P. Bliss, Edinburgh. | John F. Mackenzie, Colinton. |
| Charles G. Cook, Winnipeg. | Earle D. Macphee, Acadia Univ., Canada. |
| Walter S. Coates, Saskatchewan. | Andrew Messer, Lemington-on-Tyne. |
| James Forbes, Edinburgh. | William F. Mitchell, Dundee. |
| Hugh E. Fraser, Edinburgh. | Charles D. Rogers, Dunkeld. |
| John B. Gregory, Dunedin, Kilmacollm. | David H. Soutar, Glasgow. |

Second-Class Certificates.

- | | |
|---------------------------------------|--------------------------------------|
| J. Dobbie, Blackston and Avon Bridge. | Seizaburo Kimura, Toronto. |
| William Downie, Bo'ness. | Donald MacGillivray, Jarrow-on-Tyne. |
| W. Halley Grant, Edinburgh. | Allan M'Phee, Edinburgh. |
| Randall F. Hogarth, Berwick-on-Tweed. | J. A. Redden, Edinburgh. |
| | W. Mackenzie Scott, Edinburgh. |

H. J. C. GRIERSON, M.A., LL.D., Professor.

ENGLISH LANGUAGE.**Honours Course.****SENIOR SECTION.***First-Class Certificates.*

Arthur Melville Clark, Portobello (non-competing). J

- | | | |
|--|-----|-------------------------------|
| 1 Catherine Mackenzie, Tain
(<i>Scottish Text Society's Prize</i>). | 3 { | Mary E. Macaulay, Edinburgh. |
| 2 Janet S. Macduff, Brechin (<i>Early English Text Society's Prize</i>). | | Margaret E. Young, Edinburgh. |

Second-Class Certificates.

- | | |
|------------------------------------|--------------------------------|
| 5 Mary A. Scott, North Ronaldshay. | 6 Annie C. Simpson, Edinburgh. |
| 7 Hugh S. Walker, Falkirk. | |

JUNIOR SECTION.*First-Class Certificates.*

- | | |
|------------------------------------|--|
| 1 Lauriston W. Sharp, Edinburgh. | } <i>Early English Text Society's Prize.</i> |
| 2 Cecilia M. Calder, Tillicoultry. | |

Second-Class Certificates.

- | | |
|------------------------------------|--------------------------|
| 3 Margaret L. Fairburn, Edinburgh. | 4 Alice W. Fife, Thurso. |
|------------------------------------|--------------------------|

ENGLISH LITERATURE.**Honours Half-Course (Summer Term).****SENIOR SECTION.***First-Class Certificate.*

- 1 Catherine Mackenzie, Tain.

Second-Class Certificates.

- | | | | | |
|-----|----------------------------------|-----|-------------------------------|---------------------------|
| 2 { | Agnes Drennan, Innerleven. | 6 { | William A. Walker, Scotland. | |
| | Mary Louise Sinclair, Edinburgh. | | Margaret Stuart, Edinburgh. | |
| | Mary A. Scott, North Ronaldshay. | | 8 { | Alice M. E. Brown, Joppa. |
| | 4 { | | Margaret Robertson, Scotland. | |
| | Margaret Young, Edinburgh. | 10 | Mary E. Macaulay, Edinburgh. | |

JUNIOR SECTION.*First-Class Certificates.*

- | | |
|------------------------------------|-------------------------------------|
| 1 Lauriston W. Sharp, Edinburgh. | 3 Mary E. Bain, Chirnside, Berwick. |
| 2 Cecilia M. Calder, Tillicoultry. | |

CLASS MERIT LISTS

Second-Class Certificates.

- | | |
|--|--------------------------------|
| 5 William R. North, Marcellus,
U.S.A. | 6 G. C. Haddow, Canada. |
| | 7 Hilda M. A. Knott, Edinburgh |

CATHERINE M. MACLEAN, M.A.,
Interim Lecturer.

FRENCH.

Honours Class.

First-Class Certificates.

- | | |
|--------------------|-------------------------------|
| 1 Ida Smith. | 4 Mary Cooper. |
| 2 Kate Wilson. | 5 Eleanor Simpson. |
| 3 Margaret Badger. | 6 Janet Catherine MacDougall. |

Second-Class Certificates (arranged alphabetically).

- | | |
|-------------------|------------------|
| Mary Anderson. | Catherine Hayes. |
| Victoria Buyers. | Frances Kinnear. |
| Marjorie Chaplyn. | Helen Nelson. |
| Anne Cumming. | Agnes Stewart. |

Intermediate Class.

First-Class Certificates.

- | | |
|-------------------------------------|--------------------------------|
| 1 Jane Lymburn, Drongan, Ayr-shire. | 3 Beryl Baggott, Musselburgh. |
| 2 Isabel M. G. Smith, Edinburgh. | 4 Mary S. Edmond, Prestonpans. |

Second-Class Certificates (arranged alphabetically).

- | | |
|------------------------------------|----------------------------------|
| Isabel M. Agnew, Dunbar. | Williamina Lawson, Carham. |
| Ethel E. Armit, Nova Scotia. | Mary M'Allister, Glasgow. |
| Barbara H. Atkinson, Largo. | Gladys C. M'Gavin, Rutherglen. |
| Margaret E. Cattell-Jones, Bengal. | Mary A. F. Maxwell, Dornoch. |
| Olivia P. Clouston, Stromness. | Winifred M. Paterson, Edinburgh. |
| James H. Greig, Leith. | |

Ordinary Class.

First-Class Certificates.

- | | |
|------------------------------------|-----------------------------------|
| 1 Christina H. Smail, Kelso. | 7 Charlotte E. Wilkie, Edinburgh. |
| 2 { Andrew Gilmour, Burntisland. | 8 Enid Mason, Gateshead-on-Tyne. |
| { Netta R. Seath, Kenmore. | |
| 4 William W. Finlay, Liberton. | 9 { Edith A. Alexander, Kelso. |
| 5 { Charles J. Henderson, Ayr. | { Eliza R. Collie, Edinburgh. |
| { Elizabeth B. Hunter, Kirriemuir. | |

Second-Class Certificates (arranged alphabetically).

Dorothy J. Anderson, Dysart.
 Jessie G. Barnie, Wick.
 Marjorie Cookson, Kendal.
 Mary R. Dalgleish, Edinburgh.
 Winifred M. Dower, Wick.
 Robert R. Fairley, Addiewell.
 Mary S. Gardiner, Haddington.
 Georgina E. Gillespie, Changchun,
 China.
 Gavin H. Glass, Musselburgh.
 Meta Grant, Edinburgh.
 Mary C. Guthrie, Edinburgh.
 Isabella D. Hepburn, Edinburgh.
 Lauderdale M. Hunter, Kilmarnock.

Dorothy C. Hutchings, Glasgow.
 Joan J. Johnston, Shetland.
 Helen Hyde Lay, Tokio.
 Agnes E. McClelland, Dumfries.
 Effie F. Mackay, Tarbolton.
 Elizabeth M. Munro, Canisbay.
 Alexandrina E. G. Penman, Col-
 lessie.
 Jessie M. Rodger, Lanark.
 Isabel S. Stewart, Wick.
 Mary E. R. Sutherland, Sunderland.
 Robert R. Turner, Dalkeith.
 George R. Williamson, Corstor-
 phine.

R. L. G. RITCHIE, M.A., D.Litt., *Junior Lecturer*.
 CHAS. SAROLEA, K.O.L., D.Litt., Ph.D., LL.D.,
 D.Jur., *Professor*.

GERMAN.**Honours Class.***First-Class Certificates.*

- | | |
|---|--|
| 1 Janet M. Henderson, Ayr
(<i>Better Endowment Association Prize</i>). | 2 { John E. G. Burgoyne, Ayr.
Janet C. MacDougall, Joppa. |
|---|--|

Second-Class Certificates.

- | | |
|------------------------------|------------------------------|
| 4 Frances G. Kinnear, Perth. | 5 Katie S. Hayes, Edinburgh. |
|------------------------------|------------------------------|

Second Ordinary Class.*First-Class Certificates.*

- | | |
|------------------------------|--|
| 1 Jane Lyburn, Ayr. | 3 { Edith A. Alexander, Kelso.
Ethel Roxburgh, Edinburgh. |
| 2 Christina H. Smail, Kelso. | |

Second-Class Certificate.

- 5 Winifred M. Paterson, Edinburgh.

First Ordinary Class.*First-Class Certificates.*

- | | |
|--|--|
| 1 Charlotte E. Wilkie (<i>Better Endowment Association Prize</i>). | 3 { Janet Harper, Biggar.
Rina E. J. Penman, Collessie. |
| 2 Annie J. Gray, Portobello. | 5 May Dalgleish, Edinburgh. |

Second-Class Certificates.

- | | |
|--------------------------|-------------------------|
| 6 Jessie M. Rodger, Ayr. | 7 Meta Grant, Dufftown. |
|--------------------------|-------------------------|

H. F. EGGELING, M.A., *Junior Lecturer*.
 OTTO SCHLAPP, Ph.D., *Lecturer*.

SENIOR HEBREW.*First-Class Certificate.*

John C. T. Hunter, Edinburgh.

A. R. S. KENNEDY, D.D., *Professor.***CELTIC LANGUAGES AND LITERATURE.***First-Class Certificate.*

Murdo Kennedy Macleod, Lewis.

WILLIAM J. WATSON, M.A., LL.D., *Professor.***LOGIC AND METAPHYSICS.****Advanced Class.***First-Class Certificates.*Louis A. Reid, Edinburgh (*Bruce of Grangehill Prize*).

D. M. Swanson, Methil.

Ordinary Class.*First-Class Certificates.*

- | | | | |
|---|--|----|---|
| 1 | Ursula D. Herdman, Edinburgh
(<i>Elizabeth Hamilton Prize</i>). | 10 | E. Marjory Knott, Manchester. |
| | J. C. T. Hunter, Edinburgh. | | G. A. Lawson, Edinburgh. |
| 3 | A. M. Dryburgh, Edinburgh. | | A. N. Davidson, North Berwick. |
| | R. B. H. Thomson, Port Seton. | | J. F. M'Kenzie, Juniper Green. |
| | J. W. Stewart, Edinburgh. | | M. R. Nicolson, Edinburgh. |
| | G. J. R. Macaulay, Edinburgh. | 14 | John Buchanan, Edinburgh. |
| | C. H. Sarolea, Edinburgh. | | Margaret H. Kidd, Bo'ness. |
| 5 | E. P. Dickie, Dumfries. | | Charles Stewart, Waterbeck,
Dumfriesshire. |
| | Mary E. R. Sutherland, Edinburgh. | | |

Second-Class Certificates (in alphabetical order).

Ruth R. B. Adamson, Arbroath.

D. G. Bisset, Montrose.

J. M. Macalister, Edinburgh.

Ian Mackintosh, Grantown-on-Spey.

E. D. MacPhee, New Brunswick,
Canada.

J. R. Philip, Invergowrie, Dundee.

Mary W. Smith, Mid Yell, Shetland.

D. H. Soutar, Thurso.

A. S. PRINGLE-PATTISON, M.A., LL.D., *Professor.*

ANCIENT PHILOSOPHY.**Honours Half-Course (Autumn Term).***Certificate of Merit.*—L. A. Reid.**Introductory Course (Summer Term).****SECTION 1—Certificates of Merit.**

J. Scott Brown.

J. N. C. Clark.

H. T. Deas.

Andrew Gilmour.

W. F. Inglis.

Alexander Jenkins.

James Lessells.

J. S. Macpherson.

J. S. W. Reid.

SECTION 2—Certificates of Merit.

J. S. Hall.

R. A. James.

C. C. Jenkins.

D. M. Swanson.

ADVANCED LOGIC (Spring Term).*Certificates of Merit.*

J. S. Hall.

L. A. Reid.

D. M. Swanson.

R. P. HARDIE, M.A., *Lecturer.***MORAL PHILOSOPHY.****Honours Class.***First-Class Certificates.*

1 Robert A. Lillie, Broughty-Ferry.

2 Alexander Swinton, Methil, Fife.

Unplaced :—George Cuthbert, Abernethy.**Ordinary Class.***First-Class Certificates.*

1 D. Masterton Swanson, Leith.

2 Mary G. Grierson, Edinburgh.

3 J. Stuart Hall, Edinburgh.

4 Hilda Y. Cossar, Edinburgh.

5 Mary J. M'Nab, Craigie, Perthshire.

Unplaced :—Marjorie C. G. Brown, Stravithie, Fife; Andrew Gilmour, Burntisland; Dudley S. Hopkirk, Portobello; James R. Lawrie, Harthill, Lanark; E. D. MacPhee, Sussex, N.B., Canada; Andrew J. Messer, Lemington-on-Tyne; Robert R. Watt, Comrie.

Second-Class Certificates (in alphabetical order).

W. G. Coates, Saskatoon, Canada.
Annie D. M. Fyfe, Carlisle.
Margaret H. Kidd, Bo'ness.
Mary M. Lindsay, Edinburgh.
H. R. MacCallum, Kingston,
Canada.

James Mill, Dundee.
W. C. Pearson, Manitoba, Canada.
Margaret J. B. Stewart, Edinburgh.
Anne M. Walls, Corstorphine.

JAMES SETH, M.A., *Professor.*

Honours Half-Course (Summer Term).

Certificates of Merit.

J. F. Anderson.
M. Freeman.
J. S. Hall.
H. R. MacCallum.

G. W. Spragge.
J. J. Stillwell.
D. M. Swanson.

H. BARKER, M.A., *Lecturer.*

PSYCHOLOGY.

Honours Class.

Certificates of Merit.

Mary Collins, M.A.
Annie Drysdale, M.A.

A. Swinton.
Edith I. M. Thomson, M.A.

Ordinary Class.

First-Class Certificates.

Isobel M. Agnew.
Bertha M. Butters.
Lillias M. Cook.
Jennie R. Corse.
Elizabeth Cuthell.
A. N. Davidson.
E. P. Dickie.
J. L. N. Dinwiddie.
W. A. Fowler.

Mary M. Kennedy.
J. Lakey.
Winifred Law.
Gladys M. Meek.
W. G. B. Oliver.
J. A. Scott.
Ellen D. Walker.
G. G. N. Wright.

Second-Class Certificates.

Mary M. Bickerstaff.
J. S. Dunbar.
Florence M. Falconer.
Joanna J. Johnson.
Mary Leith.
Jane Lymburn.

G. J. R. Macaulay.
Margaret Macleod.
W. Morrison.
Margaret T. C. Shearer.
Isabel M. G. Smith.
Jessie A. M. Weir, M.A.

H. BARKER, M.A.
JAMES DREVER, M.A., B.Sc., D.Phil. } *Interim*
 } *Lecturers.*

EXPERIMENTAL PSYCHOLOGY (Summer Term).*Certificates of Merit.*Lewis D. Henderson.
William C. Pearson.

William Wilson.

JAMES DREVER, M.A., B.Sc., D.Phil., *Lecturer.***POLITICAL ECONOMY.****Honours Class.**1 Asta Moller, Edinburgh (*Prize*).*First-Class Certificates.*2 Margaret G. Macgregor, Crieff. | 3 Hans R. Soni, India.
Alice M. MacIver (2nd attendance), Edinburgh.**Ordinary Class.**1 Margaret S. Miller, Glasgow
(*Merchant Co. Prize*).
2 { Hilda Y. Cossar, Edinburgh.
Anna A. W. Ramsay, Aberdeen
(*George Watson's Prize and Daniel Stewart's Prize*).4 { James Matson, Edinburgh.
Susanne Paterson, Edinburgh.
6 Frederick Thomson Smith,
Edinburgh.*First-Class Certificates.*7 { Mary Ayton Brown, Edin.
Ann F. Mailer, Alloa.9 Winifred M. Paterson, Edin.
10 George O. Mackenzie, Edin.On percentage of two examinations (in alphabetical order) :—
Georgina Cormack, Thurso. J. Cockburn Millar, Edinburgh.
Andrew Messer, Lemington-on-Tyne. N. J. Gillies Smith, Edin.*Second-Class Certificates (in alphabetical order).*Mary M. Bickerstaff, Leith.
Marion E. Fraser, Leith.
Margaret M. Harrower, Duns.
Isobel B. Johnston, Edinburgh.
Martha M. Kirkness, Leith.John S. MacLaren, Alness.
Pappu Parvatisam, India.
Alexander Russell, Tranent.
Margaret C. Strathern, Larbert.
Elsie Waite, Dunbar.**ESSAY.**{ Mary Ayton Brown, Edinburgh. } *Prizes.*
{ Frederick T. Smith, Edinburgh. }**Agricultural Economics.***First-Class Certificate.*

J. S. MacMillan, Edinburgh.

J. SHIELD NICHOLSON, M.A., D.Sc., *Professor.*

ELEMENTARY POLITICAL ECONOMY.*First-Class Certificates.*

- | | | |
|---|---|-------------------------------------|
| Edgar C. B. Kirsopp, Linlithgow (<i>Special Prize</i>). | 3 | George R. Williamson, Corstorphine. |
| Edmond A. Armstrong, Edinburgh. | 4 | Earle Douglas MacPhee, Canada. |

Second-Class Certificates.

- | | | | |
|-----|------------------------------------|-----|-----------------------------------|
| 5 { | Robert W. MacBain, Canada | 8 { | Thos. Ritchie Adam, Brechin. |
| | Peter R. C. Macfarlane, Edinburgh. | | Harold W. Brown, Canada. |
| | Emory S. Rogers, Wisconsin, U.S.A. | | Gordon Marckworth, Ohio, U.S.A. |
| | | | Fred. Des Brisay Mathers, Canada. |
| | | 12 | Mary Esther Liddall, Edin. |

MARY THERESA RANKIN, M.A., *Interim Lecturer.*

ECONOMIC HISTORY.**Honours Class.***First-Class Certificate.*

Alice M. MacIver, Edinburgh.

Ordinary Class.**A—ON THREE TERMS' WORK.***First-Class Certificates.*

- | | | | |
|---|--|-----|---|
| 1 | Ellinor Wilson Fairweather, Kirkcaldy. | 5 { | Janet Harper, Walston, Lanarkshire. |
| 2 | Jessie Galloway, Edinburgh. | | Asta Winifred Russell Moller, Copenhagen. |
| 3 | Elsie Sime Rodger, Blairgowrie. | | |
| 4 | Lennie Roberta Corse, Orkney. | | 7 | Marguerite Elder Rose, Edin. |

Second-Class Certificates.

- | | | | |
|---|------------------------------------|----|-------------------------------------|
| 8 | Margaret Cruickshanks Bruce, Wick. | 9 | Frederick Thomson Smith, Edinburgh. |
| | | 10 | Marion E. Fraser, Leith. |

B—ON TWO TERMS' WORK.*First-Class Certificates.*

- | | | | |
|-----|------------------------------------|---|-------------------------------------|
| 1 { | Dudley Stuart Hopkirk, Portobello. | 3 | William Whitehead, Falkirk. |
| | William Allan M'Phee, Glasgow. | 4 | David Milne, Edinburgh. |
| | | 5 | Arthur Smith Fraser, Leith. |
| | | 6 | David Chalmers Anderson, Edinburgh. |

Second-Class Certificates.

- | | |
|--|--|
| 7 Andrew Alexander Mitchell,
Edinburgh. | 10 David N. Macintyre, Islay. |
| 8 John R. Love, Toronto, Ontario. | 11 Aurfryn Mudie Rees, S.
Rhodesia. |
| 9 Robert Ritchie Watt, Comrie. | 12 R. M. Leslie, Edinburgh. |

C—ON ONE TERM'S WORK.

First-Class Certificates.

- | | |
|--|---|
| 1 William Alexander Carrothers,
Manitoba. | 3 Byron Fiske Field, Michigan,
U.S.A. |
| 2 Elmer Winfield Cressman,
Penn., U.S.A. | 4 Emory Sidney Rogers, Wis-
consin, U.S.A. |

Second-Class Certificates.

- | | |
|--------------------------------------|---|
| 5 Albert Jackson Weir, Ontario. | 8 Thomas Oscar M'Laughlin,
Wyoming, U.S.A. |
| 6 E. E. Carncross, Canada. | 9 Gordon Roy Hukins, Toronto. |
| 7 Ivan H. Grove, Colorado,
U.S.A. | |

B.COM. HALF-COURSE.

First-Class Certificates.

- | |
|--|
| 1 { Stanley Noel Grant, Aberdeen. |
| { George Robertson Williamson, Corstorphine. |

Second-Class Certificates.

- | | |
|---|--|
| 3 James Young Erskine, Edin-
burgh. | 6 William Johnston Mortimer,
Edinburgh. |
| 4 W. Grant Gordon, Cabrach. | 17 Thomas Milne, Dunfermline. |
| 5 Joseph C. O. Turfery, Edin-
burgh. | |

J. F. REES. M.A., *Lecturer.*

STATISTICS AND MATHEMATICAL ECONOMICS.

First-Class Certificates.

- | | |
|---|--|
| 1 James H. B. Bell, Auchter-
muchty. | 2 Hudson M. Monroe, Lebanon,
Ohio, U.S.A. |
| | 3 Stanley N. Grant, Aberdeen. |

Second-Class Certificates.

- | | |
|--|-------------------------------------|
| 4 Thomas Milne, Dundee. | 6 James Y. Erskine, Edin-
burgh. |
| 5 G. B. Curtis, Pittsfield, Mass.,
U.S.A. | |

G. A. CARSE, M.A., D.Sc., *Lecturer.*

THEORY AND HISTORY OF EDUCATION.

Advanced Class.

First-Class Certificates.

Mary Collins, M.A.

Annie W. Drysdale, M.A.

Edith I. M. Thomson, M.A.

Ordinary Class.

First-Class Certificates.

1 Jessie Harris, M.A.

2 Jean S. Lindsay, M.A.

3 { Harriet G. Leitch, M.A.

Jessie S. McLeod, M.A.

{ Margaret T. Adams, M.A.

5 { Elizabeth Cuthill, M.A.

{ Mary H. F. Lawson, M.A.

8 Janet T. Lowe, M.A.

9 { Margaret I. Kinnaird, M.A.

{ Mary C. T. Somerville, M.A.

11 Bessie H. M. Digney, M.A.

12 { Felicitas M. Doherty, M.A.

{ Mary M. Kennedy, M.A.

Unclassed but equal to 3rd :—Frank Batchelor, M.A.

Second-Class Certificates (arranged alphabetically).

James Allan.

Ruby A. S. Ayre, M.A.

Mary Bisset, M.A.

Helen W. L. Bowie, M.A.

James Brown, M.A.

Margaret C. Bruce.

Flora Calder.

Jean B. Campbell.

Hugh M. Campbell.

Joseph Halliday.

Jane H. Hewitt, M.A.

James Hossack.

William Hossack.

Charles C. Jenkins.

Henrietta M. Laidlaw.

A. Dorothy Mackenzie, M.A.

Alexandrina McLean.

Isabella M. Matthews.

Mary A. F. Maxwell.

Gladys S. Miller.

Esther W. Nixon, M.A.

Margaret T. Norrie, M.A.

Elizabeth S. Philp.

James A. Scott.

Marion H. Smith.

Bessie Swanney, M.A.

Jessie A. M. Weir, M.A.

Modern Educational Systems and Problems.

First-Class Certificates (arranged alphabetically).

Frank Batchelor, M.A.

Helen W. L. Bowie, M.A.

Bessie H. M. Digney, M.A.

Joseph Halliday, M.A.

Ernest H. Johnson, B.A. (Cantab.)

Jessie Kelso Kelly, M.A.

Mary M. Kennedy, M.A.

William A. Kenyon, B.A.

Jessie S. MacLeod, M.A.

Hudson M. McKee, M.A. (Leland-Stanford).

Elizabeth L. S. Ross, M.A.

K. T. Sen.

William Wilson, M.A.

C. D. Walinck, M.A.

Harry E. Wedeclefsky, M.A.

Second-Class Certificates (arranged alphabetically).

William A. Anderson, M.A.	Jane H. Hewitt, M.A.
Ruby A. S. Ayre, M.A.	Margaret I. Kinnaird, M.A.
Chester L. Barrows, B.S. (Boston).	Henrietta M. Laidlaw, M.A.
James Brown, M.A.	Alexandrina M'Lean, M.A.
Nelson E. Campbell.	Elizabeth MacRae.
Elizabeth R. Craig, M.A.	Esther D. Nixon, M.A.
John W. Davis, B.A.	Margaret T. Norrie, M.A.
Fred L. Delkin, A.B.	Mary Robertson, M.A.
William L. Douglas, M.A.	Bessie Swanney, M.A.
David Fleming, M.A.	G. G. Neill Wright, M.A.
James C. Hedges.	Catherine B. Young, M.A.
Lewis D. Henderson.	

JAMES DREVER, M.A., B.Sc., D.Phil., *Lecturer.*
 ALEXANDER DARROCH, M.A., *Professor.*

MATHEMATICS.**Advanced Honours Course.***First-Class Certificates.*

- | | |
|---|------------------------------|
| 1 Henrietta A. Pyper, Grantown-on-Spey. | 2 Dorothy A. Reid, Liberton. |
|---|------------------------------|

Awarded First-Class Certificates on Partial Examination with Medical Certificate.

- | | |
|----------------------------------|----------------------------------|
| 1 Nora I. Calderwood, Edinburgh. | Isabella M. Morrison, Edinburgh. |
|----------------------------------|----------------------------------|

Second-Class Certificates (in alphabetical order).

- | | |
|-------------------------------------|--------------------------------|
| 1 Muriel C. Chisholm, Inverness. | Agnes Irene Taylor, Edinburgh. |
| Eliza Mary Pyper, Grantown-on-Spey. | |

Intermediate Honours Course.*First-Class Certificates.*

- | | |
|---|---------------------------------------|
| 1 Christina Miller, Hawick. | 6 James M. Stagg, Dalkeith. |
| 2 Samuel Allen, Glasgow. | 7 Florence M. Falconer, Dundee. |
| 3 Wm. Heriot Watson, Edinburgh. | 8 Leslie B. C. Cunningham, Edinburgh. |
| 4 R. B. Bennett, Slateford. | 9 Frank Esplin, Brechin. |
| 5 James Henderson, Windygates, Fifeshire. | 10 D. A. Fairweather, Edinburgh. |

Second-Class Certificates (in alphabetical order).

- | | |
|-------------------------------|--------------------------|
| Wm. P. L. Hope, London. | Annie Porteous, Leith. |
| Alan S. Macnair, Edinburgh. | William Redpath, Hawick. |
| James D. W. Mills, Edinburgh. | William Watson, Dundee. |
| John Morrison, Galashiels. | |

¹ Second Attendance.

Additional Summer Course.*First-Class Certificates.*

- | | |
|---------------------------------|----------------------------------|
| 1 T. A. Lumsden, Edinburgh. | 3 Nora I. Calderwood, Edinburgh. |
| 2 James H. Bell, Auchtermuchty. | |

Second-Class Certificates (in alphabetical order).

- | | |
|--------------------------------|---------------------|
| Muriel C. Chisholm, Inverness. | David Jack, Dunnet. |
| Jessie D. Dunbar, Edinburgh. | |

Map Projections.*First-Class Certificate.*

- Margaret B. Kilgour, M.A., Abernethy.

Second Ordinary Course.*First-Class Certificates.*

- | | |
|-----------------------------------|---|
| 1 James Matson, Edinburgh. | 13 J. C. Mann, Leith. |
| 2 Basil S. M'C. Paterson, India. | 14 Frederick W. H. Meston, Edinburgh. |
| 3 Charles J. Henderson, Ayr. | 15 J. W. M. Gunn, Dunbeath, Caithness. |
| 4 J. C. M'Laren, Invergordon. | 16 John M. Lewars, Edinburgh. |
| 5 Mary A. Kerr, Linlithgow. | 17 Isabella W. Wood, Edinburgh. |
| 6 John R. M'Kain, Wick. | 18 Katherine E. D. Brotherston, Dunblane. |
| 7 Annie F. Mailer, Alloa. | 19 Margueretta L. Cumming, Edinburgh. |
| 8 Netta R. Seath, Perth. | 20 Leslie Collie, Brechin. |
| 9 Robert R. Fairley, Addiewell. | |
| 10 Lily Shearer, Thurso. | |
| 11 Hector L. Crawford, Ayr. | |
| 12 Jas. A. Brownlee, West Calder. | |

Second-Class Certificates (in alphabetical order).

- | | |
|---|---------------------------------|
| Wm. Anderson, Turnhouse. | Robert B. Husband, Leith. |
| Jane M. M. Bird, Broxburn. | A. S. R. Inglis, Edinburgh. |
| Wm. G. Black, Edinburgh. | Christopher C. Kerr, Edinburgh. |
| Wm. T. Brow, Leith. | Hector A. M'Donald, Linlithgow. |
| ¹ Flora H. M. Calder, Edinburgh. | Marjorie G. Martin, Edinburgh. |
| David S. Drever, Stromness. | Harry Milford, Edinburgh. |
| Frederick J. Eaton, Edinburgh. | Hugh B. Nisbet, Edinburgh. |
| H. Fairley, Addiewell. | T. Ramsay Paterson, Edinburgh. |
| James W. Gibb, Edinburgh. | Wm. Riddle, Hawick. |
| Anna S. P. Gilmour, Musselburgh. | Jean S. Robertson, Edinburgh. |
| T. J. Gristwood, Corstorphine. | John B. Tait, Leith. |
| Margaret M. Harrower, Duns. | James Yorston, Tranent. |

Recommended for the Newton Bursary.

James Matson.

¹ Second Attendance

First Ordinary Course.*First-Class Certificates.*

- | | |
|----------------------------------|------------------------------------|
| 1 David B. Horn, Liberton. | 7 Marjory L. Macgregor, Edinburgh. |
| 2 Richard Snedden, Edinburgh. | 8 Jane L. Duncanson, Dunbar. |
| 3 James W. Fergusson, Dundee. | 9 Amy Lorrain-Smith, Edinburgh. |
| 4 David M. Webster, Falkirk. | 10 John Innes, Portobello. |
| 5 John G. A. Jeffrey, Edinburgh. | |
| 6 Margaret H. F. Roy, Alloa. | |

Second-Class Certificates (in alphabetical order).

- | | |
|--|--|
| Margaret Adamson, Kelso. | J. D. Middlemass, Pyhope. |
| L. S. Blair, Birkenhead. | Rina E. J. Penman, Collessie, Fife. |
| Olivia P. Clouston, Stromness, Orkney. | Robert Peterson, Edinburgh. |
| Kate E. Cunningham, Edinburgh. | Helen Reid, North Berwick. |
| William Fairley, Addiewell. | Margaret Robertson, Beauly. |
| Fanney E. B. Gaedecke, Perth. | Robert Robertson, Edinburgh. |
| Ethel R. Galloway, Edinburgh. | Margaret T. C. Shearer, Wick, Caithness. |
| Margaret Lawson, Kelso. | Elizabeth P. Sutherland, Edinburgh. |
| Mary A. M'Cabe, Dalkeith. | John Sutherland, Latheron, Caithness. |
| Ronald M. M'Gregor, Edinburgh. | James Whyte, Edinburgh. |
| Katharine Massey, Manchester. | |

GLENNY SMEAL, B.Sc., *Lecturer.*DAVID GIBB, M.A., B.Sc., *Lecturer.*E. T. WHITTAKER, Sc.D., F.R.S., *Professor.***Second Technical Class.***First-Class Certificates.*

- | | |
|---------------------------------|---------------------------|
| 1 W. Galloway Black, Edinburgh. | 2 Robert H. Henry, Leith. |
|---------------------------------|---------------------------|

Second-Class Certificates (in alphabetical order).

- | | |
|-----------------------|----------------------|
| Robert Hill, Fearn. | John Sarolea, Ghent. |
| Peter Murray, Dundee. | |

First Technical Class.*First-Class Certificates.*

- | | |
|------------------------------------|------------------------------------|
| 1 A. G. S. Sandison, Shetland. | 6 Robert A. Colquhoun, Carlisle. |
| 2 John Venters, Fochabers. | 7 William Tolmie, Scone. |
| 3 { William N. Allan, Stockport. | 8 William H. Mackenzie, Edinburgh. |
| { David A. Gordon, Dollar. | |
| 5 Ivor A. M. M'Taggart, Bonnyrigg. | 9 Andrew Sim, Aberdeenshire. |

Special Certificate—G. B. Gourlay, Sydney, N.S.W.

Second-Class Certificates (in alphabetical order).

- | | |
|---------------------------------|-----------------------------|
| James Comrie, Dunbar. | A. S. M. Munro, Selkirk. |
| George T. W. Grieve, Edinburgh. | B. Molerovitch, Belgrad. |
| R. Leslie Hunter, Edinburgh. | Robert W. R. Powrie, Perth. |
| Isabella I. Lumsden, Edinburgh. | Letham K. White, Edinburgh. |
- E. M. HORSBURGH, M.A., D.Sc.,
Assoc.M.Inst.C.E., *Lecturer.*

ACTUARIAL MATHEMATICS.**First-Year Course for the Diploma.***First-Class Certificates.*

- | | |
|------------------------------|----------------------------|
| 1 William A. Barclay, Perth. | 2 James Matson, Edinburgh. |
| 3 Helen K. Laing, Edinburgh. | |
- A. E. SPRAGUE, D.Sc., F.I.A., P.F.A.
E. T. WHITTAKER, Sc.D., F.R.S.

APPLIED MATHEMATICS.**Advanced Honours.***First-Class Certificates.*

- | | |
|------------------------------|----------------------------|
| 1 Dorothy A. Reid, Liberton. | 2 Thomas A. Lumsden, Edin. |
|------------------------------|----------------------------|

Intermediate Honours.*Second-Class Certificates.*

- | | |
|---------------------------------|---|
| 1 E. Marjory Knott, Manchester. | 2 { Florence M. Falconer, Caer-
laverock, Dumfriesshire.
W. P. L. Hope, London. |
|---------------------------------|---|
- C. G. KNOTT, D.Sc., LL.D., *Lecturer.*

NATURAL PHILOSOPHY.**Electricity I. (Final Honours).***First-Class Certificate.*

- | |
|------------------------------------|
| 1 Isabella M. Morrison, Edinburgh. |
|------------------------------------|

Second-Class Certificates.

- | |
|---|
| 2 Dorothy A. Reid, Liberton. |
| 3 { Henrietta A. Pyper, Grantown-on-Spey.
Donald C. Wilson, Tranent. |

Electricity II. (Final Honours).*First-Class Certificate.*

- 1 Eliza M. Pyper, Grantown-on-Spey.

Second-Class Certificates.

- | | |
|---|--------------------------------|
| 2 Henrietta A. Pyper, Grantown-on-Spey. | 4 Dorothy A. Reid, Liberton. |
| 3 Agnes I. Taylor, Eyemouth. | 5 Thos. A. Lumsden, Edinburgh. |

Physical Optics (Final Honours).*Second-Class Certificates.*

- | | |
|---|-------------------------------------|
| 1 Henrietta A. Pyper, Grantown-on-Spey. | 2 Eliza M. Pyper, Grantown-on-Spey. |
| | 3 Agnes I. Taylor, Eyemouth. |

General Physics (Final Honours).*First-Class Certificates.*

- | | |
|--------------------------------|------------------------------|
| 1 Thos. A. Lumsden, Edinburgh. | 2 Dorothy A. Reid, Liberton. |
|--------------------------------|------------------------------|

Second-Class Certificates.

- | | |
|---|-------------------------------------|
| 3 Henrietta A. Pyper, Grantown-on-Spey. | 4 Eliza M. Pyper, Grantown-on-Spey. |
| | 5 Agnes I. Taylor, Eyemouth. |

Heat (Intermediate Honours).*First-Class Certificates.*

- | | |
|-----------------------------------|---------------------------------------|
| 1 Wm. Heriot Watson, Edinburgh. | 5 { R. B. Bennett, Slateford. |
| 2 { D. A. Fairweather, Edinburgh. | 7 { John Morrison, Galashiels. |
| James B. Lockhart, Cambuslang. | 8 { John Leslie, Glasgow. |
| James M. Stagg, Musselburgh. | 9 { L. B. C. Cunningham, Edin. |
| | 10 { Christina C. Miller, Coatbridge. |
| | 10 F. W. H. Meston, Stirling. |

Second-Class Certificates.

- | | |
|---|---|
| 11 Walter Heron, Crosshouse, near Kilmarnock. | 14 { Anna S. P. Gilmour, Temple. |
| 12 { James Henderson, Windygates, Fife. | 14 { Wm. Watson, Perth. |
| Wm. Redpath, Galashiels. | 15 { Florence Falconer, Caerlavery, Dumfries. |
| | 16 { David Trann, Muiredge, Buckhaven. |

Electricity (Intermediate Honours).*First-Class Certificates.*

- | | |
|---------------------------------|----------------------------------|
| 1 Wm. Heriot Watson, Edinburgh. | 3 James B. Lockhart, Cambuslang. |
| 2 James M. Stagg, Musselburgh. | |

Second-Class Certificates.

- | | |
|---|--|
| 4 James Henderson, Windygates,
Fife. | 7 Thos. H. Sutherland, Edin-
burgh. |
| 5 Alex. Coutie, Edinburgh. | 8 L. B. C. Cunningham, Edin. |
| 6 Wm. Watson, Perth. | 9 J. Morrison, Galashiels. |

Ordinary Class.*First-Class Certificates.*

- | | |
|--|--|
| 1 David M. Webster, Falkirk
(<i>Newton Bursary</i>). | 8 { Hope P. Anderson, Edinburgh.
John R. MacKain, Wick. |
| 2 Ronald C. Fisher, Edinburgh. | { Chas. S. Broadwood, Edin-
burgh. |
| 3 W. N. Allan, Stockport, Lancs. | 10 { B. S. M'C. Paterson, India, |
| { Chas. J. Henderson, Ayr.
John M. Lewars, Lesmahagow. | 12 Elizabeth S. Philp, Glasgow. |
| 4 { J. Cameron Mann, Leith.
David D. Paterson, Edinburgh. | |

*Second-Class Certificates (names alphabetically in groups).***A.**

- | | |
|--|---|
| Katherine E. D. Brotherston,
Edinburgh. | Mary A. Kerr, Ballyclare, Co.
Antrim. |
| Wm. C. Charleson, Edinburgh. | Isabella I. Lumsden, Scotland. |
| Hector L. Crawford, Ayr. | Hector A. McDonald, Portree,
Isle of Skye. |
| Geo. T. W. Grieve. | Ivor A. M'Taggart, Bonnyrigg. |
| John Innes, Portobello. | Alex. A. M. Sandison, Orkney. |
| John G. A. Jeffrey, Edinburgh. | Bertram Siddons, Nottingham. |
| Christopher C. Kerr, Edinburgh. | John Venters, Fochabers. |

B.

- | | |
|---|--|
| Douglas A. Allan, Edinburgh. | Annie F. Mailer, Hurlford, Ayr-
shire. |
| Bertha M. Butters, Saltcoats. | James Matson, Edinburgh. |
| James Comrie, Dunbar. | Hugh B. Nisbet, Edinburgh. |
| Margueretta L. Cumming, Edin-
burgh. | Netta R. Seath, Kenmore, Perth-
shire. |
| Henry Fairley, Addiewell. | John Sutherland, Latheron, Caith-
ness. |
| Elizabeth M. Henderson, Edinburgh. | James Yorston, Tranent. |
| John Lakey, Edinburgh. | |
| James C. McLaren, Stromness. | |

C.

- | | |
|--|-----------------------------|
| Donald B. Cameron, Lasswade. | R. L. Hunter, Leslie, Fife. |
| Robert A. Colquhoun, Carlisle. | Wm. Morrison, Scotland. |
| James W. Gibb, Edinburgh. | T. R. Paterson, Edinburgh. |
| Alex. C. Gillies, Kilbrandon Parish,
Argyll. | A. J. Rusk, Edinburgh. |
| J. Masson Gulland, Edinburgh. | Noel J. G. Smith, Leeds. |
| J. W. M. Gunn, Dunbeath, Caithness. | D. P. Stewart, Gibraltar. |
| Margaret M. Harrower, Allanton,
Berwickshire. | F. C. Whitfield, China. |
| | Norman G. Wilson, Irvine. |

Practical Physics (Final Honours).*First-Class Certificate.*

Henrietta A. Pyper, Grantown-on-Spey.

Second-Class Certificates (in alphabetical order).

J. Morrison, Galashiels.

Eliza M. Pyper, Grantown-on-Spey.

Agnes I. Taylor, Eyemouth.

John Thorburn, Scotland.

Practical Physics (Intermediate Honours).*First-Class Certificates (in alphabetical order).*

Anna S. P. Gilmour, Temple.

Margaret B. A. Millar, Kirkcowan.

Christina C. Miller, Coatbridge.

Second-Class Certificates (in alphabetical order).

Jane M. M. Bird, Edinburgh.

Sophie L. Robb, Leith.

War Privilege.*First-Class Certificates (in alphabetical order).*

J. Leslie, Glasgow.

D. Trann, Muiredge, Buckhaven.

W. H. Watson, Edinburgh.

*Second-Class Certificates (in alphabetical order).*James Henderson, Windygates,
Fife.

Thomas H. Sutherland, Edinburgh.

SCHOLARSHIPS, ETC.*Scholarship on Nichol Foundation.*—Thos. A. Lumsden (resigned).*Neil Arnott Scholarship.*—Henrietta A. Pyper.*Donald Fraser Bursary.*—Wm. Heriot Watson.*Newton Bursary.*—David M. Webster.J. R. MILNE, D.Sc., *Lecturer.*G. A. CARSE, M.A., D.Sc., *Lecturer.*C. G. BARKLA, D.Sc., F.R.S., *Professor.*

HISTORY.**Honours Class.***First-Class Certificate.*

Mary Ayton Brown.

*Second-Class Certificates.*Elizabeth G. K. Hewat.
Francis D. Hislop, M.A.

Helene J. B. T. Penman.

Ordinary Class.*First-Class Certificates.*

- | | | | |
|---|-------------------------|---|-----------------------------|
| 1 | Barbara M. Scott. | 5 | { Ruth Madeline J. Russell. |
| 2 | David B. Horn. | | { Margaret L. Telfer. |
| 3 | Elspeth J. Boog-Watson. | 7 | { Douglas P. Bliss. |
| 4 | James N. Dandie. | | { Ronald P. Morison. |

Second-Class Certificates (in alphabetical order).

- | | |
|-----------------------|-------------------------|
| David C. Anderson. | Donald Mackay. |
| David C. Borland. | Ian W. M'Innes. |
| James A. Brownlee. | Ian Mackintosh. |
| John Buchanan. | Alice R. Paterson. |
| James D. Cairns. | Helen O. C. C. J. Reid. |
| John Cameron. | Gordon A. Ryrie. |
| Isabella S. Clyne. | Amy Lorrain-Smith. |
| William W. Finlay. | James K. Smith. |
| John D. Forbes. | Marion H. Smith. |
| Annie D. M. Fyfe. | James W. Stewart. |
| Edith A. Gibson. | Robert S. Strang. |
| Thomas S. Hamilton. | Charles Cameron Taylor. |
| William G. Humphreys. | Richard B. H. Thomson. |
| James R. Lawrie. | Anne Macdonald Walls. |
| Ian M. Macalister. | Neil Watson. |
| Euan Macdiarmid. | William Whitehead. |

RICHARD LODGE, Kt., M.A., LL.D., *Professor.*

BRITISH CONSTITUTIONAL HISTORY.**Honours Class.***First-Class Certificates.*

- | | | | |
|---|---|---|----------------------------|
| 1 | Elizabeth Glendinning Kirk-
wood Hewat, Edinburgh. | 2 | Mary Ayton Brown, Denholm. |
|---|---|---|----------------------------|

Second-Class Certificate.

- 3 Helene Jamieson Borthwick Tait Penman, Collessie.

J. H. MILLAR, M.A., LL.B., *Professor.*

ANCIENT (SCOTTISH) HISTORY.*First-Class Certificates.*

- | | | |
|--------------------------------|--|-------------------------------|
| Alma B. Calderwood, Edinburgh. | \| | Laurence A. Robertson, Leith. |
| Anna V. Colquhoun Kerr, Edin. | \| |  |

SCOTTISH HISTORY FROM 1518.*First-Class Certificate.*

Laurence A. Robertson, Leith.

Second-Class Certificate.

Alex. M. Dryburgh, Edinburgh.

SCOTTISH HISTORY.**Ordinary Class.***Second-Class Certificate.*

Margaret T. Norrie, Kincardine-on-Forth.

HENRY W. MEIKLE, M.A., D.Litt., *Lecturer.***ANCIENT (GREEK AND ROMAN) HISTORY.****Honours Half-Course.***Summer Term*—GREEK HISTORY, 621-490 B.C.*First-Class Certificates.*

- | | | |
|----------------------------|--|--------------------------------|
| 1 John Cameron, Edinburgh. | \| | 2 Andrew Gilmour, Burntisland. |
|----------------------------|--|--------------------------------|

Second-Class Certificates.

- | | | |
|---------------------------------|--|----------------------------|
| 3 J. S. M'Laren, Alness. | \| | 5 Helen D. White, Lerwick. |
| 4 James Farquhar, New Pitsligo. | \| |  |

Ordinary Class—Terminal Courses.*Autumn Term*—GREEK HISTORY.*Certificates of Merit.*

- | | | |
|--------------------------------|--|-------------------------------|
| 1 R. M. Edie, Inveresk. | \| | 4 R. A. James, Trinidad. |
| 2 Andrew Gilmour, Burntisland. | \| | 5 W. F. Inglis, Auchterarder. |
| 3 J. Scott Brown, Edinburgh. | \| |  |

Spring Term—ROMAN REPUBLIC.*Certificates of Merit.*

- | | | |
|--------------------------------|--|--------------------------------|
| 1 { J. N. C. Clark, Edinburgh. | \| | 5 W. F. Inglis, Auchterarder. |
| { H. T. Deas, Stonehouse. | \| | 6 J. D. Mabbott, Duns. |
| 3 R. R. Turner, Dalkeith. | \| | 7 Andrew Gilmour, Burntisland. |
| 4 J. Scott Brown, Edinburgh. | \| | 8 J. S. W. Reid, Leith. |

Summer Term—ROMAN EMPIRE.*Certificates of Merit.*

- | | | |
|---------------------------|--|------------------------------|
| 1 R. R. Turner, Dalkeith. | \| | 4 A. S. Paterson, Edinburgh. |
| 2 { J. D. Mabbott, Duns. | \| |  |
| { John Mailer, Edinburgh. | \| |  |

A. F. GILES, M.A., *Lecturer.*

BRITISH HISTORY to 1807.**Honours Half-Course (Autumn Term).***First-Class Certificate.*

- 1 Anna A. W. Ramsay, Edinburgh.

Second-Class Certificates.

- | | |
|-----------------------------------|------------------------------------|
| 2 Alma B. Calderwood, Edinburgh. | 4 David C. Thomson, Edinburgh. |
| 3 Agnes E. T. MacLennan, Glasgow. | 5 Grace N. Hay, Edinburgh. |
| | 6 Marjory Sinclair, South Shields. |

BRITISH HISTORY, 1485-1660.**Honours Half-Course (Summer Term).***First-Class Certificates.*

- | | |
|--|-------------------------------------|
| 1 { Anna A. W. Ramsay, Edinburgh. | 4 Alexander M. Dryburgh, Edinburgh. |
| James William Thomson, M.A.,
Cockenzie. | 5 James R. Philip, Invergowrie. |
| 3 David C. Thomson, Edinburgh. | 6 Grace N. Hay, Edinburgh. |

Second-Class Certificate.

- 7 Agnes E. T. MacLennan, Glasgow.

MACKAY LECTURES IN HISTORY.**Summer Term.***Certificates of Merit.*

- | | |
|--------------------------------|----------------------------------|
| James A. Brownlee. | Anna V. C. Kerr, Edinburgh. |
| John Buchanan, Edinburgh. | W. R. North, U.S.A. |
| Alma B. Calderwood, Edinburgh. | Alice Paterson, Edinburgh. |
| James N. Dandie, Edinburgh. | James R. Philip, Invergowrie. |
| John C. Hardy, Edinburgh. | R. Edgar Rawson, Dumfries. |
| William A. Irwin, Canada. | Marjory Sinclair, South Shields. |
| Isobel B. Johnston, Edinburgh. | Robert S. Strang, Portobello. |

POLITICAL SCIENCE—The History of Political Thought.**Honours Half-Course (Spring Term).***First-Class Certificates.*

- | | |
|----------------------------------|-----------------------------|
| 1 { Elizabeth G. K. Hewat, Edin. | 3 J. M. Laing, M.A., Nairn. |
| Anna A. W. Ramsay, Edin. | |

Second-Class Certificates.

- | | |
|--------------------------|-------------------------------|
| 4 Laurence A. Robertson, | 5 { Alma B. Calderwood, Edin. |
| Leith, | Ralph L. Whitney, Canada. |
| | 7 W. A. Kenyon, Canada. |

POLITICAL SCIENCE—The Modern State.**Honours Half-Course (Summer Term).***First-Class Certificates.*

- | | |
|--------------------------------------|--------------------------------------|
| 1 Laurence A. Robertson, Leith. | 3 E. D. Alyea, U.S.A. |
| 2 J. W. Thomson, M.A.,
Cockenzie. | 4 Anna A. W. Ramsay, Edin-
burgh. |

Second-Class Certificates

- | | |
|----------------------------------|----------------------------|
| 5 Margaret G. MacGregor, Crieff. | 7 { E. J. Dempsey, Canada. |
| 6 Alma B. Calderwood, Edin. | { W. A. Irwin, Canada. |

POLITICS—Elementary.**Spring Term.***Certificates of Merit.*

- | | |
|---|---------------------------------|
| Ellinor W. Fairweather, Kirk-
caldy. | Agnes E. T. MacLennan, Glasgow. |
| Agnes Fleming, Pumpherston. | Asta W. R. Moller, Copenhagen. |
| Grace N. Hay, Edinburgh. | James R. Philip, Invergowrie. |
| Isobel B. Johnston, Edinburgh. | Elsie S. Rodger, Burntisland. |
| | David C. Thomson, Edinburgh. |
| | D. P. HEATLEY, <i>Lecturer.</i> |

FINE ART.**Ordinary Class.***First Class-Prize*—Margaret S. Miller.*Second Prizes for Class Work:—*

- | | |
|-----------------------|----------|
| Jessie Galloway | } equal. |
| Mary C. T. Somerville | |
| Ellen D. Walker | |

Third Prizes for Class Work:—

- | | |
|----------------------|----------|
| Margaret F. H. Clark | } equal. |
| Lilias Muriel Cook | |

Cousin Prize for Class Essays—Jessie Galloway.The above, with Mary M. D. Coghill, Jean K. Duncan, and Patricia S. Keith, receive *First-Class Certificates*.*Second-Class Certificates (in alphabetical order).*

- | | |
|----------------------|--------------------|
| James Forbes. | Mary M. Lindsay. |
| Marion E. Fraser. | Barbara Mackenzie. |
| Patricia T. Ireland. | John B. Russell. |
| Robert M. Leslie. | Henry C. Vickers. |

G. BALDWIN BROWN, M.A., *Professor.*

GEOGRAPHY.**Honours Class.***First-Class Certificates.*

- | | | |
|---------------------------|--|--------------------------------|
| 1 Helen A. Matheson, M.A. | \| | 2 Jenny K. B. Macpherson, M.A. |
|---------------------------|--|--------------------------------|

Second-Class Certificate.

Alexander S. Lawson, M.A.

Ordinary Class.*First-Class Certificates.*

- | | | |
|--|--|--|
| 1 William F. Gillies, Haddington
(<i>Royal Scottish Geographical
Society's Silver Medal</i>). | | 2 { Dorothy Mary Green, Peebles.
Jean Allan Hardy, M.A.
Sydney, N.S.W. |
| | | 4 Agnes Halliday, Edinburgh. |

Second-Class Certificates (in alphabetical order).

Martha M. Kirkness, Leith.

Alexander S. Lawson, M.A., Edin.

Louisa Russell, Edinburgh.

Two Terms Only.*First-Class Certificates.*

- | | | |
|-----------------------------|--|----------------------------|
| 1 Andrew A. Mitchell, Edin. | \| | 2 Arthur S. Fraser, Leith. |
|-----------------------------|--|----------------------------|

Second-Class Certificates.

- | |
|--|
| 3 { James Allan Hutton, Berwick-on-Tweed.
David Budge, Wick.
John Mitchell, Edinburgh. |
| 6 John Watson, Edinburgh. |

ECONOMIC GEOGRAPHY, I.*First-Class Certificate.*

- 1 George R. Williamson.

Second-Class Certificates (in alphabetical order).

William G. Gordon.

William J. Mortimer.

One Term Only.*First-Class Certificate.*

Margaret S. Miller.

GEO. G. CHISHOLM, M.A., B.Sc., *Lecturer.*

FACULTY OF SCIENCE.

GEOLOGY AND MINERALOGY.

First-Class Certificates.

- | | |
|------------------------------------|---------------------------------------|
| 1 { Agnes Chalmers, Peebles. | 5 Robert K. S. Mitchell, Edinburgh. |
| 2 { Helen I. Allan Gray, Leith. | 6 Mary M'Gregor M'Alister, Edinburgh. |
| 3 Muriel C. Chisholm, Inverness. | 7 { Norah M. Loudon, Bonnyrigg. |
| 4 Olive Worth Scarlett, Edinburgh. | 8 { Douglas A. Allan Edinburgh. |

Second-Class Certificates.

- | | |
|---|---------------------------------|
| 9 Jennie W. Oliver, Sunderland. | 13 Jessie D. Dunbar, Edinburgh. |
| 10 { Marion R. M. Macgregor, Edinburgh. | 14 Annie B. A. Scott, Ruthwell. |
| 11 { Marjory L. Macgregor, Inverness. | |
| 12 { Hugh M. Campbell, Stirling. | |

T. J. JEHU, M.A., M.D., *Professor*

PRACTICAL GEOLOGY.

First-Class Certificates.

- | | |
|-------------------------------|--------------------------------|
| 1 Helen I. Allan Gray, Leith. | 2 Douglas A. Allan, Edinburgh. |
|-------------------------------|--------------------------------|

Second-Class Certificates.

- | | |
|------------------------------------|------------------------------------|
| 3 Agnes Chalmers, Peebles. | 7 { Muriel C. Chisholm, Inverness. |
| 4 Robert K. S. Mitchell, Edin. | 8 { Jessie D. Dunbar, Edinburgh. |
| 5 Norah M. Loudon, Bonnyrigg. | 9 Olive Worth Scarlett, Edinburgh. |
| 6 Marjory L. Macgregor, Inverness. | |

ROBERT CAMPBELL, M.A., D.Sc., *Lecturer.*
T. J. JEHU, M.D., M.A., *Professor.*

PALÆONTOLOGY.

Second-Class Certificates.

- | | |
|--------------------------------|-------------------------------|
| 1 K. A. Master, India. | 2 D. R. K. Middlemass, Kelso. |
| 3 Jane H. Shiels, East Linton. | |

T. J. JEHU, M.D., M.A., *Professor.*

PETROLOGY.*First-Class Certificate.*

- 1 K. A. Master, India.

Second-Class Certificate.

- 2 D. R. K. Middlemass, Kelso.

ROBERT CAMPBELL, M.A., D.Sc., *Lecturer.***STRUCTURAL AND FIELD GEOLOGY.***First-Class Certificates.*

- | | | | |
|----|---|----|--|
| 1 | Frank A. Brown, Stenton, Prestonkirk. | 14 | Robert Grant Broadwood, M.C., Edinburgh. |
| | Robert MacLagan Gorrie, Edinburgh. | | Charles Robertson, Edinburgh. |
| 3 | George E. Miller, Ayr. | | F. C. Ford Robertson, Edinburgh. |
| | William Galloway Black, Edinburgh. | 17 | John Finlayson, Leith. |
| 4 | T. Gibson, Haddington. | | James T. Flett, Orkney. |
| | Robert H. Henry, Leith. | | John B. Clements, Liverpool. |
| | John R. Sarolea, Ghent. | 19 | Robert Blackwood Steele, New Zealand. |
| | W. T. Hall, Edinburgh. | | D. E. Calver, Kilmarnock. |
| | Walter P. Kennedy, Hawick. | 21 | Walter J. Denman, Edinburgh. |
| 8 | Peter R. C. Macfarlane, Bridge of Earn. | | Donald Stewart, Beaulieu. |
| | F. Heber Smith, Birmingham. | | E. H. M. Georgeson, Edinburgh. |
| | G. F. Ball, Newcastle. | 24 | James M. Davie, South Africa. |
| 12 | Hugh Barr Johnston, Edinburgh. | | James R. McCallum, Edinburgh. |
| | | | D. R. Macarthur, Scotland. |
| | | 27 | Peter Murray, Dundee. |
| | | | H. B. Stephens, Capetown. |

Second-Class Certificates.

- | | | | |
|----|-------------------------------------|----|--|
| 30 | Archibald D. Baker, Edinburgh. | 39 | Robert Kerr Dewar, Calcutta. |
| | W. St G. V. Coles, Edinburgh. | | John E. C. Hill, Edinburgh. |
| 31 | Alexander B. Macdonald, Arbroath. | | T. E. D. Menzies, Anstruther. |
| | Harold George Bower, South Africa. | 42 | James C. F. MacIntyre, Broughty-Ferry. |
| 33 | H. R. Macpherson, Edinburgh. | | David D. Radford, Leith. |
| | Herbert A. Bignold, Edinburgh. | 44 | John M. Turnbull, Hawick. |
| | James A. Dunlop, Douglas, Scotland. | 45 | C. H. Coles, Edinburgh. |
| 35 | K. J. C. Hill, Edinburgh. | | Arthur M. Gall, Lasswade. |
| | William D. M. Warren, Eastbourne. | 47 | A. Bruce Gall, Edinburgh. |
| | | | George G. McCall, Wanlockhead. |
| | | 49 | Frederick D. Mulholland, Canada. |

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|---|---|
| 50 { Robert Bruce, Edinburgh.
E. L. H. Turnbull, Edinburgh. | 68 { Ian S. Adam, Edinburgh.
H. Hugo-Brunt, Capetown. |
| 52 { Thomas Moncrieff Balfour,
Edinburgh. | N. K. Nag, India. |
| 55 { C. J. F. Botha, South Africa.
Charles S. Hubbard, Australia. | 71 { Robert A. Corbet, Glasgow.
J. C. D. Hope, Edinburgh. |
| D. J. Peregrine-Jones, Wales. | Harry Lipetz, Edinburgh. |
| Robert W. R. Powrie, Perth. | Thomas Sandilands, Edinburgh. |
| A. P. Laing, South Africa. | David T. Smith, Edinburgh. |
| 57 { George R. Parker, Broughty-
Ferry. | 76 { R. Hendry, Edinburgh.
Frank C. Johnson, Campbell-
town. |
| 59 Hugh H. Macknight, Australia. | E. J. P. Adams, Warwickshire. |
| 60 { Andrew P. Allan, Markinch.
Bernard J. Reilly, Edinburgh. | 78 { John W. Gibb, Edinburgh.
Edward R. M. Taylor, Edin-
burgh. |
| 62 { John Todd, Airdrie.
Ernest J. Douglas, Edinburgh. | |
| Henry W. Foston, Edinburgh. | |
| 63 { Henry E. M'Kie, Bishopton.
Donald R. Macpherson, South
Africa. | |
| Hugh C. Smith, Edinburgh. | |

T. J. JEHU, M.A., M.D., *Professor.*

CHEMISTRY.

Advanced Course.

First-Class Certificate.

1. William F. Gillies.

Second-Class Certificates.

- | | |
|---|---------------------------------------|
| 2 James H. B. Bell. | 8 Thomas Mackenzie. |
| 3 Isabella J. Newton. | 9 Donald C. Wilson. |
| 4 { Agnes P. Morrison.
Elinor M. Younie. | 10 { Agnes A. Clarke.
John Leslie. |
| 6 { Samuel Allen.
Thomas A. Lumsden. | 12 Catherine C. Brown. |

Arts and Science Intermediate Course.

First-Class Certificates.

- | | |
|--------------------|-------------------|
| 1 Enid Macdonald. | 3 James M. Stagg. |
| 2 William M. Ames. | |

Second-Class Certificates.

- | | |
|--|---|
| 4 James D. W. Mills. | 12 William P. L. Hope. |
| 5 { Marjorie G. Martin.
K. A. Master. | 13 { Annie Porteous.
William Watson. |
| 7 Margaret B. Kilgour. | 15 John M'Intosh. |
| Leslie Collie. | |
| 8 { John Morrison.
William Redpath. | |
| John Watson. | |

Arts and Science First Course.

First-Class Certificates. *

- | | | | |
|----|---|----|--|
| 1 | Thomas Ramsay Paterson
(<i>Crown Brown Medallist</i>). | 12 | { Susanne J. Paterson.
John Venters. |
| 2 | { David S. Gracie.
Mary A. Kerr. | | { H. P. Anderson. |
| 4 | David A. Trann. | 14 | { Archibald D. Fairbairn.
John R. M'Kain. |
| | { John H. Hanning.
John G. A. Jeffrey. | 17 | Anna S. P. Gilmour. |
| 5 | { Hector A. M'Donald.
Alexander G. S. Sandison. | 18 | Robert A. Colquhoun. |
| 9 | David D. Paterson. | 19 | { David A. Gordon.
William Morrison. |
| 10 | Ronald C. Fisher. | 21 | { R. C. Fletcher.
Alexander C. Gillies. |
| 11 | Jean A. Ross. | | |

Second-Class Certificates (arranged alphabetically).

- | | |
|--------------------------|--------------------------|
| William N. Allan. | Robert M. Gould. |
| David M. Anderson. | J. Masson Gulland. |
| John S. Bain. | Arthur C. Hetherington. |
| Janet C. W. Banneiman. | James A. Hunter. |
| David C. Bertram. | John Innes. |
| Jane M. M. Bird. | Zhivoi Kovatchevitch. |
| Mary G. C. Black. | William H. Mackenzie. |
| Janet S. S. Blyth. | Ivor A. M'Taggart. |
| Alexander B. S. Boswell. | James D. Middlemass. |
| Ian D. Buist. | Alan S. M. Munro. |
| James H. L. Burns. | John N. Oldham. |
| Agnes C. Campbell. | Charles Oliver. |
| K. F. Carmichael. | John L. Paterson. |
| William C. Charleson. | Hector G. Paul. |
| Charles M. Clarke. | Douglas B. Robb. |
| James Comrie. | Sophie L. Robb. |
| Doris J. Cowper. | Margaret H. F. Roy. |
| Hector L. Crawford. | Allan Scott. |
| Robert O. Crombie. | Bertram Siddons. |
| Margaretta L. Cumming. | Amy M. Philip-Smith. |
| James L. N. Dinwiddie. | Samuel Stevenson. |
| David S. Drever. | Elizabeth P. Sutherland. |
| Alexander P. T. Easson. | Charles W. S. Taylor. |
| Henry Fairley. | Mary I. Taylor.* |
| William Fairley. | Robert C. Thomson. |
| A. E. Farrell. | Robert Tulloch. |
| Gerald H. Fleming. | William A. Watson. |
| Reginald W. Freeman. | David M. Webster. |
| Florence C. Gauld. | James R. Wilson. |
| James W. Gibb. | Isabella W. Wood. |

Arts and Science First Laboratory Course.*First-Class Certificates.*

- | | | | |
|----|-----------------------------|----|---------------------------|
| 1 | Reginald W. Freeman. | 20 | { James J. P. Mackenzie. |
| 2 | John H. Hanning. | | { William D. Tolmie. |
| 3 | Alan S. M. Munro. | 22 | { J. Masson Gulland. |
| | { Agnes C. Campbell. | | { Ronald C. Fisher. |
| 4 | { Christopher C. Kerr. | 23 | { Gerald H. Fleming. |
| | { Alexander G. S. Sandison. | | { Anna S. P. Gilmour. |
| 7 | David S. Drever. | | { Alexander R. Simpson. |
| | { James Comrie. | | { Robert C. Thomson. |
| 8 | { Henry Fairley. | 28 | { William C. Charleson. |
| 10 | Douglas B. Robb. | | { Alexander C. Gillies. |
| 11 | Mary G. C. Black. | | { Doris J. Cowper. |
| | { H. P. Anderson. | 30 | { Mary A. Kerr. |
| 12 | { Archibald D. Fairbairn. | | { Dorothy G. Wilson. |
| | { Margaret Adamson. | | { Robert Hart. |
| | { D. Stanley Fairweather. | 33 | { Thomas Ramsay Paterson. |
| 14 | { William H. Mackenzie. | | { G. T. Wilson Grieve. |
| | { Samuel Stevenson. | 35 | { David D. Paterson. |
| | { Hector L. Crawford. | | { John Venters. |
| 18 | { William J. Miller. | | |

Second-Class Certificates (arranged alphabetically).

- | | |
|--------------------------|--------------------------|
| David M. Anderson. | George T. Leithhead. |
| Evelyne E. Baird. | Hector A. McDonald. |
| Janet C. W. Bannerman. | Ian G. Macdonald. |
| Jane M. M. Bird. | John R. McKain. |
| Alexander B. S. Boswell. | Eric L. McQuibban. |
| Charles S. Broadwood. | Ivor A. McTaggart. |
| Ian D. Buist. | Abdul R. Malik. |
| K. F. Carmichael. | James D. Middlemass. |
| Robert A. Colquhoun. | William Morrison. |
| Donald A. Copeman. | Annie D. Mowat. |
| Ronald A. Cormack. | John L. Paterson. |
| George D. Crerar. | Susanne J. Paterson. |
| Leslie A. Cunningham. | Hector G. Paul. |
| Robert Dickson. | James Preston. |
| James L. N. Dinwiddie. | Sophie L. Robb. |
| Alexander P. T. Easson. | Dora F. M. Rose. |
| A. E. Farrell. | Jean A. Ross. |
| Alexander M. Fraser. | Margaret H. F. Roy. |
| Fanny E. B. Gaedecke. | A. J. Rusk. |
| Robert M. Gould. | Frederick W. Sansome. |
| Arthur C. Hetherington. | George Scotland. |
| George W. Hogg. | Bertram Siddons. |
| James A. Hunter. | Amy M. Philip-Smith. |
| John G. A. Jeffrey. | Konstantin Stankovitch. |
| James Kerr. | Elizabeth P. Sutherland. |
| Zhivoin Kovatchevitch. | Charles W. S. Taylor. |
| Margaret Lawson. | Mary I. Taylor. |

Isabella I. Tennant.
Robert Tulloch.
William A. Watson.
James Whyte.

David Wilson.
James R. Wilson.
N. G. Wilson.
Isabella W. Wood.

JAMES WALKER, D.Sc., *Professor.*

BOTANY.

Arts and Science Course.

First-Class Certificates.

- | | |
|--|----------------------------------|
| 1 { Frank Ashcroft Martin,
Jamaica. | 3 James Antony More, St Andrews. |
| { Noel James Gillies Smith,
Leeds. | |

Second-Class Certificates.

- | | |
|--|---|
| 4 Thomas Gibson, Haddington. | 10 { William Morrison Clark, Edin. |
| 5 John Niven Oldham, Edinburgh. | { David Smart Gracie, Glasgow. |
| 6 Alexander Henry Morham Moir, Edinburgh. | 12 Ian Donald Buist, Dunblane. |
| { Henry Erskine M'Kie, Bishop-
ton, Renfrewshire. | 13 James Charles Fairlie M'Intyre,
Broughty Ferry. |
| 7 { Francis Calder Ford Robert-
son, Edinburgh. | 14 Richard Cullis Fletcher, Derby. |
| 9 Charles John Robertson, Dundee. | 15 { Alexander Douglas Lindsay,
Glasgow. |
| | { Arthur Edwin M'Intosh, Cairo. |
| | 17 Frank Alexander Brown,
Stenton, Prestonkirk. |

PRACTICAL BOTANY.

Arts and Science Course.

First-Class Certificates.

- | | |
|--------------------------------------|---------------------------------------|
| 1 John Niven Oldham, Edin. | 3 Noel James Gillies Smith,
Leeds. |
| 2 Frank Ashcroft Martin,
Jamaica. | |

Second-Class Certificates.

- | | |
|--|---|
| 4 Francis Calder Ford Robert-
son, Edinburgh. | 11 { Frank Alexander Brown,
Stenton, Prestonkirk. |
| 5 Arthur Edwin M'Intosh, Cairo. | { William Morrison Clark, Edin-
burgh. |
| 6 James Charles Fairlie M'Intyre,
Broughty Ferry. | 13 Alexander Henry Morham
Moir, Edinburgh. |
| 7 James Antony More, St An-
drews. | 14 Henry Erskine M'Kie, Bishop-
ton, Renfrewshire. |
| 8 { Richard Cullis Fletcher, Derby.
Robert MacLagan Gorrie, Edin.
Robert Blackwood Steele. | 15 John Rodger Burnett, Mussel-
burgh. |

ISAAC BAYLEY BALFOUR, M.D. D.Sc., *Professor.*

FOREST MYCOLOGY.*First-Class Certificate.*

- 1 John M. Smith, Melbourne.

Second-Class Certificates.

- | | |
|---|-------------------------------|
| 2 G. F. Ball, Newcastle. | 5 A. H. W. Weir, Edinburgh. |
| 3 Edwin A. Bell, Edinburgh. | 6 R. G. Broadwood, Edinburgh. |
| 4 Dorothy G. Downie, B.Sc.,
Edinburgh. | 7 H. B. Stephens, Capetown. |

BOTANY (MYCOLOGY) FOR VETERINARY STUDENTS.*First-Class Certificates.*

- | | |
|-------------------------------------|--|
| 1 Thomas W. M. Cameron,
Glasgow. | 2 Phillippus L. le Roux, Cape
Province. |
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Second-Class Certificates.

- | | |
|-------------------------------|--|
| 3 J. R. Haddow, Edinburgh. | 5 { James K. Bateman, Ashkirk,
Roxburghshire.
Alan D. M'Ewen, Glasgow. |
| 4 Ian A. Galloway, Edinburgh. | |
- M. WILSON, D.Sc., *Lecturer.*

Summer 1919.**INVERTEBRATE ZOOLOGY.***First-Class Certificates.*

- | | |
|--|---------------------------|
| 1 { Agnes Chalmers.
James L. N. Dinwiddie.
Helen I. A. Gray. | 4 J. Masson Gulland. |
| | 5 Archibald D. Fairbairn. |
| | 6 Hope Pitcairn Anderson. |

Second-Class Certificates.

- | | |
|---|--|
| 7 Janet C. W. Bannerman. | 13 Evelyne E. Baird. |
| 8 A. C. Gillies. | 14 John H. Kenneth. |
| 9 { Honor B. Fell.
Susanne Paterson. | 15 { Karl V. M. Ferguson.
Charles J. Robertson. |
| 11 D. M. Reid. | 17 Annie S. Milroy. |
| 12 Mary E. H. Muir. | 18 Flora H. M. Calder. |

J. H. ASHWORTH, D.Sc., F.R.S., *Lecturer.*

SENIOR ENGINEERING.*First-Class Certificates.*

- | | |
|---------------------------|--|
| 1 R. Hill, Scotland. | 3 Elsa H. M. Georgeson, Scot-
land. |
| 2 D. M. Fraser, Scotland. | |

JUNIOR ENGINEERING.*First-Class Certificates.*

- | | |
|------------------------------|--------------------------------|
| 1 P. Murray, Scotland. | 8 D. H. Cameron, Scotland. |
| 2 J. R. Sarolea, Belgium, | 9 E. L. L. Turnbull, Scotland. |
| 3 W. G. Black, Scotland. | 10 J. A. W. Grieve, Scotland. |
| 4 I. M. E. Aitken, Scotland. | 11 T. E. D. Menzies, Scotland. |
| 5 { J. Bird, Scotland. | 12 A. P. Laing, South Africa. |
| { R. H. Henry, Scotland. | 13 H. B. Johnston, Scotland. |
| 7 K. J. C. Hill, Scotland. | 14 Geo. R. Parker, Scotland. |

Second-Class Certificates (in alphabetical order).

- | | |
|----------------------------|---------------------------------|
| H. A. Bignold, Scotland. | Minnie E. B. Lindsay, Scotland. |
| J. I. Jammy, South Africa. | D. W. Munro, Scotland. |

INTRODUCTORY ENGINEERING.*First-Class Certificates.*

- | | |
|----------------------------------|-------------------------------|
| 1 { W. N. Allan, Scotland. | 7 { G. B. Gourlay, N.S.W. |
| { R. W. R. Powrie, Scotland. | { J. W. Grieve, England. |
| 3 James Watson, Scotland. | { J. H. Hanning, Scotland. |
| 4 { A. G. S. Sandison, Shetland. | 10 W. Tolmie, Scotland. |
| { J. L. Souper, Scotland. | 11 J. R. Wilson, Scotland. |
| 6 G. T. W. Grieve, Scotland. | 12 I. A. M'Taggart, Scotland. |
| | 13 J. L. Paterson, Scotland. |

Second-Class Certificates (in alphabetical order).

- | | |
|--------------------------------|-------------------------------|
| Robert A. Colquhoun, England. | James P. Mackenzie, Scotland. |
| Geo. D. Crerar, Scotland. | Wm. H. Mackenzie, Scotland. |
| Robert Dickson, England. | George A. Main, Scotland. |
| Alex. M. Fraser, Scotland. | K. Stankovitch, Serbia. |
| James L. Harrison, Scotland. | D. P. Stewart, Gibraltar. |
| R. L. Hunter, Scotland. | John Venters, Scotland. |
| N. M. Irvine, Scotland. | J. S. Westwood, Scotland. |
| George T. Leithhead, Scotland. | Letham K. White, Scotland. |
| Isabella I. Lumsden, Scotland. | Norman G. Wilson, Scotland. |

HEAT ENGINES.*First-Class Certificates.*

- | | |
|-----------------------------------|---------------------------------|
| 1 Elsa H. M. Georgeson, Scotland. | 2 D. M. Fraser, M.C., Scotland. |
| | 3 N. K. Nag, India. |

Second-Class Certificates.

- | | |
|----------------------|-------------------------|
| A. S. Khouly, Egypt. | M. S. A. Rahman, Egypt. |
|----------------------|-------------------------|

MECHANICAL ENGINEERING.*First-Class Certificates.*

- | | |
|-------------------------------|------------------------------|
| 1 W. G. Black, Scotland. | 4 I. M. E. Aitken, Scotland. |
| 2 R. H. Henry, Scotland. | 5 J. W. Grieve, Scotland. |
| 3 T. E. D. Menzies, Scotland. | 6 Geo. R. Parker, Scotland. |

Second-Class Certificates.

- | | |
|----------------------------|------------------------|
| J. I. Jammy, South Africa. | D. W. Munro, Scotland. |
|----------------------------|------------------------|
- T. HUDSON BEARE, M.Inst.C.E., *Professor.*

ENGINEERING FIELD WORK.**Engineering Section.***First-Class Certificates.*

- | | |
|---------------------------|----------------------------|
| 1 J. L. Souper, Scotland. | 3 P. Murray, Scotland. |
| 2 J. R. Sarolea, Belgium. | 4 K. J. C. Hill, Scotland. |

Second-Class Certificates (in alphabetical order).

- | | |
|----------------------------|-------------------------------|
| D. H. Cameron, Scotland. | H. B. Johnston, Scotland. |
| R. S. Dorward, Scotland. | A. P. Laing, South Africa. |
| J. T. Flett, Orkney. | A. N. Lechler, India. |
| A. J. A. Gracie, Scotland. | H. W. L. M'Creadie, Scotland. |
| J. A. W. Grieve, Scotland. | W. G. Morrison, Scotland. |
| R. H. Henry, Scotland. | E. L. L. Turnbull, Scotland. |
| J. E. C. Hill, Scotland. | |

Agricultural Section.*First-Class Certificates.*

- | | |
|----------------------------------|---------------------------|
| 1 P. R. C. Macfarlane, Scotland. | 2 C. Robertson, Scotland. |
|----------------------------------|---------------------------|

Second-Class Certificates (in alphabetical order).

- | | |
|----------------------------|-------------------------|
| J. R. M'Callum, Scotland. | G. E. Miller, Scotland. |
| A. R. Macdonald, Scotland. | F. H. Smith, England. |

Forestry Section.*First-Class Certificates.*

- | | |
|-----------------------------|---------------------------|
| 1 F. D. Mulholland, Canada. | 2 D. E. Calver, Scotland. |
|-----------------------------|---------------------------|

Second-Class Certificates (in alphabetical order).

- | | |
|----------------------------|-------------------------------|
| G. F. Ball, England. | J. C. MacIver, Islay. |
| J. B. Clements, England. | S. K. Pillai, India. |
| W. T. Hall, Scotland. | H. B. Stephens, South Africa. |
| C. S. Hubbard, Australia. | J. M. M. Turnbull, Scotland. |
| D. R. Macarthur, Scotland. | A. H. W. Weir, Scotland. |

JOHN B. TODD, B.Sc., A.M.I.Mech.E., *Lecturer.*

FOREST ENGINEERING.**Autumn Term.***First-Class Certificates.*

- | | |
|---|---------------------------------|
| 1 R. G. Broadwood, M.C., Scot-
land. | 2 C. J. F. Botha, South Africa. |
|---|---------------------------------|

Second-Class Certificate.

- | |
|--------------------------|
| 3 H. W. Crosbie, Canada. |
|--------------------------|

Spring Term.*First-Class Certificate.*

- | |
|--|
| M. L. Anderson, M.C., Scotland. |
| WM. GORDON, B.Sc., A.M.I.Mech.E., <i>Lecturer.</i> |

ENGINEERING DRAWING.**Senior Class.***Second-Class Certificates.*

- | | |
|-------------------------|------------------------|
| D. M. Fraser, Scotland. | Robert Hill, Scotland. |
|-------------------------|------------------------|

Junior Class.*First-Class Certificates.*

- | | |
|------------------------------|--------------------------|
| 1 J. R. Sarolea, Belgium. | 4 R. H. Henry, Scotland. |
| 2 P. Murray, Scotland. | 5 W. G. Black, Scotland. |
| 3 J. A. W. Grieve, Scotland. | |

Second-Class Certificates (in alphabetical order.)

- | | |
|----------------------------|-----------------------------|
| I. M. E. Aitken, Scotland. | A. P. Laing, South Africa. |
| James Bird, Scotland. | T. E. D. Menzies, Scotland. |
| D. H. Cameron, Scotland. | G. R. Parker, Scotland. |
| K. J. C. Hill, Scotland. | |

T. HUDSON BEARE, M.Inst.C.E., *Professor.*

Summer Term.**Junior Class.***First-Class Certificates.*

- | | |
|--|--------------------------------------|
| 1 James L. Souper, Scotland. | 5 A. G. S. Sandison, Shetland. |
| 2 James Kerr, Scotland. | 6 Letham K. White, Scotland. |
| 3 Ethelbert C. Macintosh, Scot-
land. | 7 G. B. Gourlay, New South
Wales. |
| 4 G. T. Wilson Grieve, Scotland. | |

Second-Class Certificates.

- | | | | |
|----|-----------------------------------|----|---------------------------------|
| 8 | George D. Crerar, Scotland. | 25 | John W. Grieve, England. |
| 9 | William J. Miller, England. | 26 | John Venters, Scotland. |
| 10 | W. N. Allan, England. | 27 | John H. Hanning, Scotland. |
| 11 | Jas. J. P. Mackenzie, Scotland. | 28 | John C. C. Hill, Scotland. |
| 12 | Samuel Stevenson, Scotland. | 29 | William H. Mackenzie, Scotland. |
| 13 | George T. Leithhead, Scotland. | 30 | John L. Paterson, Scotland. |
| 14 | William D. Tolmie, Scotland. | 31 | Robert L. Hunter, Scotland. |
| 15 | Robert W. R. Powrie, Scotland. | 32 | J. R. Wilson, Scotland. |
| 16 | William C. Charleson, Scotland. | 33 | Isabella I. Lumsden, Scotland. |
| 17 | J. S. Westwood, Scotland. | 34 | Dorothy D. Buchanan, Scotland. |
| 18 | Norman G. Wilson, Scotland. | 35 | Petrus Mechtrovitch, Serbia. |
| 19 | Clifford Merrick Walker, England. | 36 | Charles White, Scotland. |
| 20 | Ivor M. Taggart, Scotland. | 37 | Thos. R. Scott, Scotland. |
| 21 | James Watson, Scotland. | 38 | Robert A. Colquhoun, England. |
| 22 | David A. Gordon, Brazil. | 39 | Arthur J. Rusk, Scotland. |
| 23 | Norman M. Irvine, Scotland. | 40 | George A. Main, Scotland. |
| 24 | Robert Dickson, England. | 41 | John A. K. Hamilton, England. |

H. C. GARDHAM, B.Sc., *Lecturer.***AGRICULTURE AND RURAL ECONOMY.***First-Class Certificates.*

- | | | | |
|---|----------------------------|---|--------------------------|
| 1 | Robert Allan, Edinburgh. | 3 | May S. F. Buchan, Ratho. |
| 2 | W. G. Douglas, Coldstream. | 4 | Frank Taylor. |

Second-Class Certificates.

- | | | | |
|----|---------------------------------|----|-----------------------------------|
| 5 | Walter P. Kennedy, Hawick. | 13 | Ronald D. J. M'Lellan. |
| 6 | Elizabeth T. Wilson, Eddleston. | | Andrew Ramsay, Alloa. |
| | A. Manson, Larnach. | | Walter Melville Wilson, Penicuik. |
| 8 | J. Nicholson, Wigtownshire. | | W. A. Davidson, Hawick. |
| | W. H. Fleming, Penicuik. | | J. D. Millar, Edinburgh. |
| 10 | Richard Meikle, Colinton. | | Charles Hay Dickson, Edin. |
| 11 | A. Nicoll Petrie, Brechin. | | |
| 12 | N. Jadhava, India. | | |

ADVANCED AGRICULTURE.*First-Class Certificates.*

- | | | | |
|---|----------------------------|---|-------------------------------|
| 1 | J. A. M'Millan, Edinburgh. | 4 | Eric Mackinnon, Edinburgh. |
| 2 | R. Marshall Buchan, Ratho. | 5 | Peter R. C. Macfarlane, Edin. |
| 3 | W. G. Douglas, Coldstream. | | |

Second-Class Certificates.

- | | | | |
|---|---------------------------|----|----------------------------|
| 6 | Frank S. Gordon, Eskbank. | 9 | John Mitchell Smith, Edin. |
| 7 | M. Edelman, Edinburgh. | 10 | W. G. Higgins, Edinburgh. |
| 8 | Ludvig Jönsson, Iceland. | | |

INDIAN AND COLONIAL AGRICULTURE (GARTON COURSE).

First-Class Certificates.

- | | | |
|---|------------------|----------------------------|
| 1 | Robert Allan. | |
| 2 | J. A. M'Millan. | 4 { Ronald D. J. M'Lellan. |
| 3 | Frank S. Gordon. | 6 { M. Edelman. |
| | | 6 Ludvig Jönsson. |

Steven Scholarship in Agriculture.—J. A. M'Millan.

Prov. Access.—Eric Mackinnon.

ANIMAL HUSBANDRY.

Special Summer Course for Overseas Students.

First-Class Certificates.

- | | | | |
|----|--|----|---|
| | Harold O. Brown, Brampton, Ontario. | | A. H. Castles, Perth, W. Australia. |
| | Jonathan Garst, Coon Rapids, Iowa. | 21 | L. F. Emmett, Boyanup, W. Australia. |
| 1 | J. R. Love, Irma, Alberta. | | C. B. Hutchinson, Flushing, New York. |
| | Ray E. Miller, Savannah, Missouri. | | D. M. Chalcraft, Albion, Illinois. |
| | J. M. Varey, Thornbury, Ontario. | | A. J. Emerton, Corowa, N.S.W. |
| | P. J. Fraser, Kogara, N.S.W. | | Frank Hanslow, Koguya, Victoria. |
| | C. H. C. Hillary, Perth, W. Australia. | | W. M. Gothard, Gippsland, Victoria. |
| 6 | G. Bruce Irvine, Flinders, Victoria. | 24 | J. P. Macfarlane, Huntingdon, Quebec. |
| | W. N. Jones, Montreal. | | Carol L. M'Vitty, Forest, Ohio. |
| | H. H. M'Knight, Melbourne. | | Benjamin Repp, Tiffin, Ohio. |
| | F. S. Waite, Oregon. | | H. F. Smith, Lower Mitcham, S. Australia. |
| | W. H. Ford, Ohio. | | T. P. Thompson, Blair, Wisconsin. |
| 12 | J. W. Howie, Batlow, N.S.W. | | J. S. Holt, Cave City, Kentucky. |
| | E. S. Holmes, Humula, N.S.W. | 33 | W. S. Stratton, Hillrose, Colorado. |
| | A. W. Tonking, Neutral Bay, N.S.W. | | W. H. Blatchford, Yarram, Victoria. |
| 16 | E. M. Dudley, Panora, Iowa. | | V. P. Bailey, Brisbane. |
| | D. Robertson, Horsham, Victoria. | 35 | J. P. Hayes, Portsmouth, New Hampshire. |
| | B. G. Maxwell, Hopetown, Victoria. | | A. W. Haygarth, Burnie, Tasmania. |
| 17 | R. W. Briggs, Glen Falls, New York. | | F. Timmins, Vermilion, Alberta. |
| | P. C. Connon, Guelph, Ontario. | | |

Second-Class Certificates.

- | | |
|---|---|
| <p>40 { F. L. Rowland, Clunes, Victoria.
W. R. Mann, Tabor, Iowa.
R. C. M'Lachlan, York, W. Australia.
G. Macfarlane, Hawkes Bay, N. Zealand.</p> <p>44 { A. T. Williams, Wallum Villa, Queensland.
L. H. Cooke, Perth, W. Australia.</p> <p>46 { W. W. Braitling, Springsure, Queensland.
W. F. Whitmore, Little Valley, New York.</p> | <p>48 { W. D. M'Keddie, Seymour, Victoria.
B. S. Mackay, Sydney.
W. Roberts, Brunswick, Victoria.</p> <p>50 { J. Westbrook, Armadale, Victoria.
Norman Pryde, Morwell, Victoria.</p> <p>52 { P. S. Tonkin, Australia.
H. C. Waller, Victoria.</p> |
|---|---|

ROBERT WALLACE, *Professor.***AGRICULTURAL ENTOMOLOGY.***First-Class Certificates.*

- | | |
|-----------------------------------|------------------------|
| 1 Robert Allan, B.Sc., Edinburgh. | 2 R. H. Dewar, Canada. |
|-----------------------------------|------------------------|

Second-Class Certificates.

- | | |
|--|---|
| <p>3 Walter Kennedy, Roxburghshire.</p> <p>4 J. Nicholson, Wigtownshire.</p> <p>5 May S. F. Buchan, Midlothian.</p> <p>6 Andrew Ramsay, Clackmannan.</p> <p>7 { Ronald D. J. M'Lellan, Edinburgh.
Andrew N. Petrie, Forfarshire.</p> | <p>9 Walter A. Davidson, Roxburghshire.</p> <p>10 W. Hugh Fleming, Midlothian.</p> <p>11 Richard Meikle, Midlothian.</p> <p>12 Charles H. Dickson, Edinburgh.</p> |
|--|---|

PRACTICAL AGRICULTURAL ENTOMOLOGY.*First-Class Certificates.*

- | | |
|----------------------------------|-----------------------------------|
| 1 Walter Kennedy, Roxburghshire. | 2 Robert Allan, B.Sc., Edinburgh. |
|----------------------------------|-----------------------------------|

Second-Class Certificates.

- | | |
|---|--|
| <p>3 R. H. Dewar, Canada.</p> <p>4 W. Hugh Fleming, Midlothian.</p> <p>5 Walter A. Davidson, Roxburghshire.</p> | <p>6 Ronald D. J. M'Lellan, Edinburgh.</p> <p>7 Richard Meikle, Midlothian.</p> <p>8 J. Nicholson, Wigtownshire.</p> <p>9 Andrew N. Petrie, Forfarshire.</p> |
|---|--|

FOREST ZOOLOGY.*First-Class Certificate.*

- 1 John B. M
- ^c
- Kay, B.Sc., Selkirk.

Second-Class Certificate.

- 2 Y. G. K. Row, India.

Special Course.*First-Class Certificates.*

- { R. G. Broadwood, Edinburgh.
-
- { Dorothy G. Downie, B.Sc., Edinburgh.

Diploma Students.*First-Class Certificates.*

- 1 { Lieut. J. B. Clements, Liverpool.
-
- 1 { Lieut. D. R. Macarthur, Ross.
-
- 3 Capt. W. T. Hall, Midlothian. | 4 { Pte. Fred Mulholland, Canada.
-
- 4 { Lieut. E. J. Townley, Lancashire.

Second-Class Certificates.

- 6 2nd Lieut. Eric R. Colwell, |
-
- Yorkshire. | { Lieut. E. J. P. Adams, Warwick.
-
- 7 Private B. R. L. Smith, Leeds. | 9 { Lieut. John W. Gibb, Edin.
-
- 8 Lieut. A. W. Hiscock. | { Lieut. D. J. Peregrine Jones, Wales.

Sub-Lieut. G. Tomson, Kent, one examination : 80 per cent.

R. STEWART MACDOUGALL, M.A., D.Sc., *Lecturer.***FORESTRY.****Advanced Lecture Course.***First-Class Certificates.*

- 1 M. L. Anderson.
-
- 2 { R. G. Broadwood.
-
- 2 { H. A. Parker. | 4 Dorothy G. Downie, B.Sc.

Second-Class Certificates.

- 5 F. A. Bain.
-
- 6 R. M. Yorston. | 7 E. A. Bell, M.A., B.Sc.
-
- 8 H. W. Crosbie.

Intermediate Lecture Course.*First-Class Certificates.*

- 1 { R. G. Broadwood.
-
- 1 { F. D. Mulholland.
-
- 3 W. T. Hall. | 5 J. B. Clements.
-
- 4 H. A. Parker. | 6 D. R. Macarthur.
-
- 7 D. J. Peregrine Jones.

Second-Class Certificates.

- 8 John Todd.
 9 C. J. F. Botha.
 10 { E. J. P. Adams.
 E. R. Colwell.
 12 E. J. Townley.

- 13 A. W. Hiscock.
 14 B. R. L. Smith.
 15 J. W. Gibb.
 16 N. F. Viljoen.
 17 J. A. M. Kennedy.

E. P. STEBBING, *Lecturer.*

FOREST BOTANY.*First-Class Certificate.*

- 1 R. G. Broadwood.

Second-Class Certificates.

- 2 Dorothy G. Downie. | 3 C. J. F. Botha.

INDIAN FOREST TREES.*First-Class Certificates.*

- 1 J. B. Clements. 2 W. T. Hall.

Second-Class Certificate.—3 R. G. Broadwood.

WM. G. CRAIB, M.A., *Lecturer.*

FACULTY OF DIVINITY.**DIVINITY.****Autumn and Spring Terms.****Senior—Third Year.***First-Class Certificates.*

- J. T. Dougherty, B.A., Ireland. | Albert M'Cluggage, B.A., Ireland.
 W. P. PATERSON, D.D., *Professor.*
 ALEXANDER MARTIN, D.D., *Professor.*

Spring and Summer Terms.**SENIOR CLASS.***First-Class Certificate.*

- J. H. S. Burleigh, M.A., Ednam.

JUNIOR CLASS.

First-Class Certificates.

James Brown, M.A., Rosewell.	| A. C. Kennedy, M.A., Edinburgh.
Thomas Donaldson, Bathgate.	| R. F. Whiteley, M.A., Edinburgh.

Second-Class Certificates.

C. M. Hepburn, M.A., Alloa.	| J. C. Mackinnon, M.A., Rothesay.
Donald MacBean, Tarbert.	

Summer Term.

SENIOR CLASS.

First-Class Certificate.

James Pitt Watson, M.A., Edinburgh.

Second-Class Certificate.

J. M. Gow, M.A., Muthill.

JUNIOR CLASS.

First-Class Certificates.

J. H. Duncan, M.A., Forfar.	Robt. Whiteford, M.A., Roxburgh.
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Second-Class Certificates.

W. G. Mitchell, M.A., Joppa.	Oswald Walker, M.A., Edinburgh.
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W. P. PATERSON, D.D., *Professor*

BIBLICAL CRITICISM AND BIBLICAL ANTIQUITIES.

University and New College (combined).

First-Class Certificates.

John T. Boag, M.A., Dunfermline.	| James Scott, M.A., Edinburgh.
Albert MacCluggage, B.A., Leith.	| Alexander White, M.A., Shetland
R. E. M'Intyre, M.A., Leith.	| (Lerwick).

Second-Class Certificates.

Henry H. Blanchard, B.A., Nova Scotia.	James Nicol, M.A., Dundee.
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*Summer 1919.***BIBLICAL CRITICISM AND BIBLICAL ANTIQUITIES.**

University and New College (combined).

First-Class Certificates.

Thomas Donaldson, Bathgate.
 Archibald C. Kennedy, M.A.,
 Edinburgh.
 R. P. Whiteford, M.A., Roxburgh.
 R. F. Whiteley, M.A., Edinburgh.
 J. H. S. Burleigh, M.A., Ednam.
 J. M. Gow, M.A., Muthill.
 J. H. Duncan, M.A., Forfar.

W. G. Mitchell, M.A., Joppa.
 W. R. Forrester, M.A., Glasgow.
 Wm. Hamilton, M.A., Leith.
 J. Norrie Anderson, M.A., Portobello.
 J. S. Stewart, M.A., Dundee.
 John Mowat, M.A., Lybster, Caithness.

Second-Class Certificates.

Wm. Addison, M.A., Inverkeithing.
 Alan M. Davidson, M.A., Invergowrie.
 C. M. Hepburn, M.A., Alloa.
 George Lyall, M.A., Edinburgh.
 Donald MacBean, Tarbert, Loch
 Fyne.
 Lachlan MacEdward, M.A., Kingussie.
 J. C. Mackinnon, M.A., Rothesay.
 M. M. Macpherson, M.A., Elgin.
 J. Pitt Watson, M.A., Edinburgh.
 G. C. Cumming, M.A., Glasgow.

John Elder, M.A., Dundee.
 Leslie P. Hope, M.A., Edinburgh.
 T. M. Linkie, M.A., Edinburgh.
 J. R. Martin, M.A., Liberton.
 R. R. Y. Minto, M.A., Corston-
 phine.
 James Nicol, M.A., Dundee.
 R. W. Hardy, Ontario.
 Foster Hilliard, Ontario.
 F. F. Townsend, B.A., Ontario.
 A. W. Stuart, Auckland, N.Z.
 J. L. Graham, B.A., Ohio, U.S.A.

WILLIAM A. CURTIS, D.D., D.Litt., *Professor.*
 H. A. A. KENNEDY, D.D., D.Sc., *Professor.*

ECCELESIASTICAL HISTORY.*First-Class Certificates (in alphabetical order).*

H. H. Blanchard, B.A., Nova Scotia. | R. E. M'Intyre, M.A., Leith.
 John T. Boag, M.A., Dunfermline. | James Scott, M.A., Edinburgh.

Second-Class Certificate.

A. MacCluggage, B.A., Ireland.

*Summer 1919.***ECCLIASTICAL HISTORY.***First-Class Certificates.*

- | | |
|-----------------------------|-------------------------------|
| 1 { John M. Gow, M.A. | 8 Thomas Donaldson, M.A. |
| 2 { James Pitt Watson, M.A. | 9 { W. R. Lawrence, M.A. |
| 3 { A. C. Kennedy, M.A. | 10 { Charles M. Hepburn, M.A. |
| 4 { J. H. Duncan, M.A. | 11 { I. C. MacKinnon, M.A. |
| 5 { C. Walls, M.A. | 12 { G. W. Walker, M.A. |
| 6 { R. F. Whiteley, M.A. | 13 { R. P. Whiteford, M.A. |
| 7 James Brown, M.A. | |

Second-Class Certificates.

- | | |
|----------------------------------|-----------------------------|
| 14 { Alan M. Davidson, M.A. | 20 W. G. Mitchell, M.A. |
| 15 { N. D. Kennedy, M.A. | 21 { W. Addison, M.A. |
| 16 { Malcolm M. MacPherson, M.A. | 22 { Lachlan M'Edward, M.A. |
| 17 James E. M'Intosh, M.A. | 23 { Donald MacBean. |
| 18 { Edward Hastings, M.A. | 24 { Hugh MacKenzie. |
| 19 { Peter Lockhart, M.A. | |

American and Colonial Students.*Second-Class Certificates.*

- | | |
|----------------------------|---------------------------|
| 1 G. G. Heffelfinger, B.A. | 4 Ralph W. Hardy. |
| 2 R. L. Whitney. | 5 Albert E. Suthers, B.A. |
| 3 Foster Hilliard. | 6 Mansfield Freeman, B.A. |

JAMES MACKINNON, Ph.D., D.D., *Professor.***HEBREW.****SENIOR CLASS.***First-Class Certificate.*

Alexander White, M.A. (New College), Lerwick.

Second-Class Certificate.

James Nicol, M.A. (New College), Dundee.

SUMMER TERM.**Old Testament Class.***First-Class Certificate.*

Thomas Donaldson, Bathgate.

Second-Class Certificates (in alphabetical order).

- | | |
|---------------------------------------|-------------------------------------|
| Alan Davidson, Invergowrie. | Oswald Walker, M.A., Edinburgh. |
| Donald Macbean, Tarbert. | James Pitt Watson, M.A., Edinburgh. |
| James C. Mackinnon, M.A.,
Rothsay. | R. P. Whiteford, M.A., Roxburgh. |

Senior Hebrew.*First-Class Certificates.*

J. H. S. Burleigh, M.A., Ednam, Kelso.		R. F. Whiteley, M.A., Edin- burgh.
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Second-Class Certificate.

John M. Gow, M.A., Muthill.

Junior Hebrew.*First-Class Certificates.*

James Brown, M.A., Rosewell.	|	C. M. Hepburn, M.A., Alloa.
A. R. S. KENNEDY, D.D., <i>Professor.</i>		
ADAM C. WELCH, D.D., Th.D., <i>Professor.</i>		

FACULTY OF LAW.

Including Classes common to the Faculties of
Law and Arts.

PUBLIC LAW.

1 Margaret G. MacGregor.	|	3 Donald Macdonald.
2 Mary S. Rossie Brown.	|	

The following who left the Class at Christmas reached the Honours standard in the Examinations in Jurisprudence :—

W. B. Abbott.		J. M. Little.
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The following who joined the Class after Christmas reached the Honours standard in the Examinations in Public International Law :—

F. D. Hislop.	|	D. R. Fyffe.
S. N. Grant.	|	A. A. Innes Wedderburn.

L. J. GRANT, Bart., LL.D., *Professor.*

CIVIL LAW.**Winter Session.**

1 J. M. Little, Dalbeattie.	4 {	Mary S. Rossie Brown, M.A., Edinburgh.
2 Mervyn Rodriguez, Rangoon.		Margaret G. Macgregor, Crieff.
3 A.A.I. Wedderburn, Edinburgh.		G. D. Nisbet, M.A., Edinburgh.
		David C. Thomson, Edinburgh.

The following, who joined the class late, on demobilisation, attained the honours standard in the examinations they attended:—

R. M. Connell, Dunfermline.

I. N. Dandie, Edinburgh.

J. J. M'Menemy, Kinross.

James Mill, Dundee.

David G. Prosser, Edinburgh.

The *Forensic Prize* for the best essay written by a student of the previous year was awarded to Mary Ayton Brown.

Summer Session.

1 James Mill, Dundee.

2 David G. Prosser, Edinburgh.

3 George A. Roger, Edinburgh.

4 R. M. Connell, Dunfermline.

5 T. Grainger Stewart, Edinburgh.

6 J. J. Bonar, Edinburgh.

The *Muirhead Prize*, for the highest distinction in the Winter and Summer Sessions taken together, was awarded to James Mill.

JAMES MACKINTOSH, K.C., LL.D., *Professor*.

CONSTITUTIONAL LAW AND CONSTITUTIONAL HISTORY.

1 Grace Norah Hay, Edinburgh.

2 { Agnes E. T. MacLennan, Glasgow.

{ George Dundas Nisbet, Edin.

4 { Agnes Fleming, Pumpherston.

{ Dorothy Mary Green, Peebles.

{ David Cleghorn Thomson, Edinburgh.

James Randall Philip, Invergowrie, who joined the class in January reached the standard for an Honours Certificate for his work during January to March.

J. H. MILLAR, M.A., LL.B., *Professor*.

SCOTS LAW.

Winter Session.

1 William G. M. Dobie, M.A.,
Kirkcudbrightshire (*Thorn
Scholar*).

2 John Roger Orr, India.

3 H. G. Castellan Brown,
Suffolk.

4 John R. Wishart, M.A., Mid-
lothian.

Summer Session.

1 William G. M. Dobie, M.A.,
Kirkcudbrightshire.

2 John Roger Orr, India.

3 T. Grierson Fraser, Roxburgh-
shire.

4 William M. Mitchell, Mid-
lothian.

5 George Emmett, Yorkshire.

6 T. B. Simpson, Midlothian.

JOHN RANKINE, K.C., M.A., LL.D., *Professor*.

CONVEYANCING.

- | | |
|--|---------------------------------|
| 1 R. C. Smith, Midlothian (<i>Thow Scholar</i>). | 4 Peter Young, Perthshire. |
| 2 W. L. Stuart, Midlothian. | 5 A. T. Mackenzie, Forfarshire. |
| 3 Eliza P. B. Maxton, Perthshire. | 6 A. J. O. Kemp, Midlothian. |
| | 7 D. Macnaughton, Midlothian. |
| | 8 Lily Fraser, Midlothian. |

JOHN L. MOUNSEY, W.S., *Professor*.

Summer 1919.**FORENSIC MEDICINE.***First-Class Certificates.*

- | | |
|------------------------|-----------------------------|
| 1 { T. B. Simpson. | \| 3 { Charles Gibson Connell. |
| { James Robert Wilson. | |
| | 3 { Mary S. R. Brown. |

Second-Class Certificates.

- | | |
|---------------------------|----------------------|
| 5 James C. M. Guy. | \| 10 { Daniel Menzies. |
| 6 Gordon Mackay. | |
| 7 Margaret G. Macgregor. | { S. M'Donald. |
| 8 { Maurice Markowitz. | 12 David Arnot. |
| { Patrick P. L. Gardiner. | |

HARVEY LITTLEJOHN, M.A., M.B., B.Sc., *Professor*.

MERCANTILE LAW.

- | | |
|--------------------------|----------------------------------|
| 1 John Roger Orr, India. | \| 2 Margaret S. Miller, Edinburgh. |
| | |
- HENRY AITKEN, K.C., *Lecturer*.

EVIDENCE AND PROCEDURE.

- | | |
|---------------------------------|---|
| 1 R. C. Smith, M.A., Edinburgh. | 2 Duncan Macnaughton, M.A.,
Edinburgh. |
| | |
- W. J. LEWIS, B.L., *Lecturer*.

FACULTY OF MEDICINE.

CHEMISTRY.

First-Class Certificates.

- | | |
|---|-----------------------------|
| 1 David Grieve (<i>Robert Wilson Memorial Prize</i>). | 12 Andrew W. Gardiner. |
| 2 Adam C. White. | 13 Edmund R. Boyd. |
| 3 Robert Carmichael. | 14 { John B. Mackie. |
| 4 { Robert J. Rosie. | { Margaret G. Maxwell. |
| { Rowland P. Wilson. | { George H. Thomson. |
| 6 D. S. Fairweather. | 17 William C. S. B. Sewrey. |
| 7 { D. Stewart Cherry. | 18 Edgar P. Waters. |
| { Archibald Penman. | |
| { John Sturrock. | |
| 10 Charles J. Swanson. | James N. Adam. |
| 11 Alison J. Maxwell Wood. | Eric Jobson. |
| | James R. K. Paterson. |

Second-Class Certificates (names in alphabetical order).

- | | |
|-----------------------|---------------------------|
| Stuart F. Allison. | Edward K. A. Firth. |
| David G. Anderson. | Walter M. Forster. |
| Montague P. Atkinson. | Fred W. Gavin. |
| David Band. | Edward J. G. Glass. |
| Charles Bateman. | Margaret H. Gordon. |
| Ralph S. Begbie. | John Gray. |
| David M. Bertram. | Alexander B. Guild. |
| Harriette G. Bogle. | George M. Hargreaves. |
| Jean P. S. Bow. | Harry Hastings. |
| Eric P. Boyle. | Leo E. Henderson. |
| Joseph Braithwaite. | George Horne. |
| William N. Brown. | Alastair K. James. |
| William J. Burns. | Edith I. M. Irvine Jones. |
| Thomas D. Burt. | Llewelyn C. Palmer-Jones. |
| Andrew J. M. Butter. | Clifford D. Kennedy. |
| Margaret D. Cairns. | Isabella Kerr. |
| James D. S. Cameron. | Henry J. R. Kirkpatrick. |
| Angus Campbell. | Ena M. Laing. |
| Harold Carter. | John Lambert. |
| W. Hugh Carter. | Alexander Leishman. |
| Dorothy A. Christie. | Reuben Levinson. |
| Antonio G. Coia. | Robert V. Liddell. |
| James W. Cromarty. | Nora Lister. |
| James Crooks. | Robert Lockhart. |
| James A. Cuthbert. | Archibald R. MacCallum. |
| James D. Dear. | Alexander R. M'Clure. |
| Robert Dick. | Andrew M'Dowall. |
| Gavin A. Dunlop. | Robert M. Macfarlane. |
| Charles W. Durward. | Janie C. M'George. |
| Caroline A. Elliott. | Ian H. Maclean. |
| Helen B. Ewart. | William R. Main. |

Desmond S. Malone.
 E. Beattie Mercer.
 Ruth E. Millar.
 John W. C. Milligan.
 George W. Monro.
 Ellen A. Morrison.
 George H. Morrison.
 Winifred Ormerod.
 William D. Paterson.
 G. H. Percival.
 Frederick W. Pringle.
 Walter H. B. Ramsay.
 Adam L. K. Rankin.
 James A. Richardson.
 Richard P. A. Rigg.
 Alfred Rosenbloom.
 William J. Royle.
 A. Ronald Semple.
 Robert T. Sharp.
 William A. Simpson.
 James Sinclair.

Arthur Smith.
 George Somerville.
 Alice Steven.
 Constance T. Thom.
 Elsie Thomson.
 Frank B. Thomson.
 Kenmure J. Thomson.
 Anne M. Turnbull.
 Forbes M'D. Walker.
 Victor G. H. Wallace.
 William Wallace.
 George M'K. Westwood.
 J. H. Williams.
 Norman B. Williamson.
 C. Robertson Wilson.
 Mary Wilson.
 William M. Wilson.
 Eric D. M. Wright.
 M. A. Graham Yooll.
 James B. Young.
 James N. Young.

PRACTICAL CHEMISTRY.

First-Class Certificates.

- 1 { Robert Carmichael.
 Margaret G. Maxwell.
 3 { Antonio G. Coia.
 Charles W. Durward.
 5 David Grieve.
 6 { Ian R. Anderson.
 John M. Campbell.
 Janie C. M'George.
 9 Ralph S. Begbie.
 10 { Ruth E. Millar.
 James R. K. Paterson.
 Leslie M. Thompson.
 13 { Robert Dick.
 D. S. Fairweather.

- { A. Landale Clark.
 Margaret G. C. Currie.
 15 { John Gray.
 Edith I. M. Irvine Jones.
 Alexander R. M'Clure.
 20 { Charles Bateman.
 Charles J. Swanson.
 James W. Cromarty.
 Walter M. Forster.
 22 { Robert J. Rosie.
 Edwin D. M. Wallace.
 Victor G. H. Wallace.

James D. Dear.
 George Horne.
 James Riddle.
 Kenmure J. Thomson.
 Rowland P. Wilson.

Second-Class Certificates (names in alphabetical order).

James N. Adam.
 James B. Adamson.
 Stuart F. Allison.
 David G. Anderson.
 David Band.

John S. Banks.
 David M. Bertram.
 Alexander Beveridge.
 Harriette G. Bogle.
 Jean P. S. Bow.

Edmund R. Boyd.
 Eric P. Boyle.
 Joseph Braithwaite.
 Jessie R. Brash.
 William N. Brown.
 William J. Burns.
 Thomas D. Burt.
 Andrew J. M. Butter.
 Eva T. Cairns.
 Margaret D. Cairns.
 Dugald Cameron.
 Ian M. Cameron.
 James D. S. Cameron.
 Angus Campbell.
 Harold Carter.
 W. Hugh Carter.
 D. Stewart Cherry.
 Aileen M. Chester.
 Dorothy A. Christie.
 Elizabeth K. Clark.
 John G. Cormack.
 James Crooks.
 James A. Cuthbert.
 Hilda M. Davis.
 Isabel M. A. Doeg.
 William R. Duff.
 Anne Duguid.
 Nigel Duguid.
 Gavin A. Dunlop.
 Henry H. Dunlop.
 Robert W. Eason.
 Caroline A. Elliott.
 Helen B. Ewart.
 John S. Faulds.
 Edward K. A. Firth.
 Andrew W. Gardiner.
 Fred W. Gavin.
 Edward J. G. Glass.
 Margaret H. Gordon.
 Richard T. F. Grace.
 Ian M. D. Grieve.
 William F. Hamilton.
 George M. Hargreaves.
 Edith N. Hartley.
 Harry Hastings.
 Leo E. Henderson.
 Percy S. Henderson.
 Alastair K. James.
 Agnes L. Jenkins.
 Eric Jobson.
 Lewis I. Johnston.

Llewelyn C. Palmer-Jones.
 John W. Keighley.
 Clifford D. Kennedy.
 George R. Kennedy.
 Isabella Kerr.
 Janet C. King.
 Henry J. R. Kirkpatrick.
 Ena M. Laing.
 John Lamb.
 John Lambert.
 Annie G. Learmonth.
 Alexander Leishman.
 Robert V. Liddell.
 Elizabeth M. Lindsay.
 Phyllis E. List.
 Nora Lister.
 Elspeth H. R. Livingstone.
 Robert Lockhart.
 Edward Bruce Low.
 Archibald R. MacCallum.
 Ian J. Macdonald.
 Andrew M'Dowall.
 Robert M. Macfarlane.
 John S. MacGill.
 Janet M. Mackay.
 Helen W. Mackenzie.
 Irma E. L. Mackenzie.
 John B. Mackie.
 N. H. A. Mackinnon.
 Catherine J. MacLaren.
 Ian H. Maclean.
 D. A. B. Macnicol.
 Desmond S. Malone.
 George A. Masson.
 R. S. Mayers.
 Margaret M. Meikle.
 E. Beattie Mercer.
 Henry Miller.
 Robert D. Miller.
 John W. C. Milligan.
 Alexander J. Milner.
 George W. Monro.
 Janet M. Morton.
 Wallace Nelson.
 Winifred Ormerod.
 William Parker.
 Archibald Penman.
 G. H. Percival.
 Walter H. B. Ramsay.
 Adam L. K. Rankin.
 Frances A. Redhead.

Jeanne V. Rees.
 James A. Richardson.
 Richard P. A. Rigg.
 R. B. Violet Robb.
 Alfred Rosenbloom.
 Anita H. M. Ross.
 William J. Royle.
 Cecil G. A. Salvesen.
 Jocelyn M. S. Scovell.
 A. Ronald Semple.
 William C. S. B. Sewrey.
 William A. Simpson.
 James Sinclair.
 Ann F. G. Smith.
 Arthur Smith.
 George Somerville.
 Alice Steven.
 John Sturrock.
 Thomas R. Sutherland.

Constance T. Thom.
 Vera Thompson.
 Elsie Thomson.
 Frank B. Thomson.
 Anne M. Turnbull.
 Duncan A. Urquhart.
 Forbes M'D. Walker.
 Edgar P. Waters.
 Adam C. White.
 C. Robertson Wilson.
 George Wilson.
 William M. Wilson.
 Alison J. Maxwell Wood.
 Eric D. M. Wright.
 Walter Wyatt.
 M. A. Graham Yooll.
 James B. Young.
 James N. Young.

JAMES WALKER, D.Sc., *Professor.*

PHYSIOS.

First-Class Certificates.

- 1 Robert Carmichael, Bainsford,
 Falkirk.
 2 { D. S. Cherry, East Calder.
 David Grieve, Carlisle.
 H. C. Palmer-Jones, Newton,
 Mid Wales.
 5 { E. R. Boyd, Edinburgh.
 John Sturrock, Edzell.
 7 A. C. White, Edinburgh.
 8 { A. W. Gardiner, Canonbie,
 Dumfriesshire.
 C. J. Swanson, Glenshee.

- 10 T. D. Burt, Edinburgh.
 11 R. P. A. Rigg, Preston.
 12 J. W. C. Milligan, Dumfries.
 13 A. G. Coia, Paisley.
 14 E. P. Waters, Darlington.
 15 { W. A. Simpson, Grangemouth.
 G. H. Thomson, Newcastle-on-
 Tyne.
 W. M. Wilson, Edinburgh.

Second-Class Certificates.

- 18 { Charles Bateman, Milnthorpe,
 Westmoreland.
 William Wallace, Dumfries.
 George Horne, Edinburgh.
 G. R. Kennedy, E. Wemyss,
 Fife.
 20 { F. M. Walker, Edinburgh.
 J. N. Young, Ayr.
 J. B. Young, Lugar, Ayrshire.

- 25 { D. G. Anderson, Carlisle.
 J. D. S. Cameron, Montrose.
 27 { W. M. Forster, Musselburgh.
 V. G. H. Wallace, Kirkcaldy.
 29 { W. H. Carter, Sunderland.
 James Crooks, Northampton.
 31 { C. H. Fouché, Graaff Reinet,
 South Africa.
 G. H. Morrison, Thurso.

- | | | | |
|----|---|----|---|
| 33 | { W. S. McEwan, Prestonpans.
Ian H. Maclean, New Zealand. | 48 | { J. M. D. Grieve, Aberfeldy.
R. J. Reid, Buckie. |
| | { W. F. Hamilton, Bareilly,
India. | | { K. J. Thomson, Claremont,
South Africa. |
| 35 | { G. M. Hargreaves, Jamaica.
Andrew McDowall, Bradford. | | { J. H. Williams, Birkenhead.
R. S. Begbie, Edinburgh. |
| 38 | { D. S. Fairweather, Clitheroe,
Lancs. | 52 | { J. B. Mackie, Hanley, Staffs.
Alex. Guild, Tranent. |
| | { C. D. Kennedy, Stornoway.
R. J. Rosie, Stronsay, Orkney. | 54 | { N. B. Williamson, South
Shields. |
| 39 | { D. H. D. Young, Tillicoultry.
David Band, Edinburgh. | 56 | { Leo. E. Henderson, Edinburgh.
C. W. Durward, Leven. |
| 42 | { F. W. Gavin, Edinburgh.
J. S. Faulds, Glasgow. | 57 | { William Parker, Cardenden,
Fife. |
| 44 | { E. D. M. Wallace, Edinburgh.
E. W. Anderson, Edinburgh. | | { Archd. Penman, Cowdenbeath.
E. P. Boyle, Dumfries. |
| 46 | { Reuben Levinson, Edinburgh. | 60 | { G. A. Masson, Scotland.
C. A. Murray, Dalbeattie. |
| | | 63 | { W. H. B. Ramsay, Alloa.
A. W. Wilson, London. |
| | | 65 | { R. T. Sharp, Edinburgh. |

The following attained honours standing in the one examination they were able to attend:—

First-Class Certificates.

- | | |
|-------------------------|--------------------------------|
| A. J. M. Butter, Perth. | J. M. Campbell, North Berwick. |
| J. Sinclair, Edinburgh. | C. A. G. Galletly, Edinburgh. |

Second-Class Certificates.

- | | |
|-----------------------------------|---|
| S. F. Allison, Greenock. | J. D. Dear, Edinburgh. |
| W. C. S. B. Sewrey, South Africa. | C. H. Snowdowne, Beaufort West,
Cape Colony. |
| W. Nelson, Falkirk. | J. A. Cuthbert, Alloa. |
| H. H. Dunlop, Edinburgh. | J. R. Anderson, Edinburgh. |
| John Lambert, Auchtermuchty. | G. W. Monro, Stranraer. |
| George Somerville, Edinburgh. | A. Rankin, Tighnabruach. |
| Angus Campbell, Killin. | J. S. Riddle, Hawick. |
| W. J. Burns, Isle of Whithorn. | |

Summer 1919.

PHYSICS.

First-Class Certificates.

- | | |
|----------------------------------|---|
| 1 F. B. Thomson, Hong Kong. | 5 Dorothy P. Herdman, Edin. |
| 2 A. Mary Allan, Stockport. | { Helen E. Ewart, Palnackie,
Kirkcudbrightshire.
Ruth G. Millar, Edinburgh. |
| 3 Edith Irving Jones, Edinburgh. | |
| 4 Elsie Sumner, Liverpool. | |

Graham Louw was unable to attend the First Examination, but gained 90 per cent. of the available marks in the Second Examination.

Second-Class Certificates.

- | | | | |
|----|--|----|--|
| 8 | A. D. M'Ewen, Glasgow. | 22 | { Phyllis E. List, Carlisle. |
| 9 | Constance T. Thom, Edin. | | { Ian Sanderson, Grangemouth. |
| 10 | J. A. Galloway, Edinburgh. | 24 | Elizabeth H. Baxendine, Portobello. |
| 11 | J. M. Spencer Scovell, Twickenham. | 25 | { Isabella Kerr, Maxwelltown. |
| | { Ellen A. Morrison, Bannockburn. | | { Jessie W. Ward, Peterborough. |
| 12 | { Anne M. Turnbull, Jedburgh. | 27 | { Annie Duguid, Bo'ness. |
| | { Eva T. Cairns, Stirling. | | { F. H. R. Price, Edinburgh. |
| 14 | { Elsie V. Crowe, Middlesboro. | | { W. M. Hetherington, Edin. |
| | { Jenny C. King, Edinburgh. | 29 | { Roberta L. M. Young, Stromness. |
| 17 | { May G. Maxwell, Edinburgh. | 31 | { Marjorie R. Brotherton, Edinburgh. |
| | { Alice Steven. | 32 | Eva M. Laing, Alloa. |
| | { A. Lilius Jenkins, Leith. | 33 | Margaret C. Simpson, Wellington, Surrey. |
| 19 | { Jessie C. B. Sym, Edinburgh. | 34 | W. R. Terry, London. |
| | { J. K. Bateman, Ashkirk, Roxburghshire. | 35 | Anita H. M. Ross, Edinburgh. |

C. G. KNOTT, D.Sc., LL.D., *Lecturer.**Summer 1919.***ELEMENTARY BOTANY.***First-Class Certificates.*

- | | | | |
|---|---|----|---|
| 1 | James Ralston Kennedy Paterson, Edinburgh. | | { John Durran, Kirriemuir. |
| 2 | Edmund Robert Boyd, Edinburgh. | | { Alexander Malcolm Kerr, Abdie, Fife. |
| 3 | Donald Gordon Stewart M'Lachlan, Star, Fife. | | { Hugh Linton Mackintosh, Bishopriggs. |
| | { John Stewart Henry, Canada. | 12 | { Margaret Gilmour Maxwell, Edinburgh. |
| | { David Taylor Mackie, South Queensferry. | | { Gilbert Matheson Ross, Ross and Cromarty. |
| 4 | { Thomas Ritchie, Dumfriesshire. | | { Winifred Margaret Small, Edinburgh. |
| | { David George Aimers Stewart, M.A., Edinburgh. | | { Adam Cairns White, Edinburgh. |
| | { Charles John Swanson, Perthshire. | | { Helen Black Ewart, Kirkcubrightshire. |
| | { Agnes Mary Allan, Stockport. | 19 | { John Thomson M'Quat, Logiealmond, Perthshire. |
| 9 | { John Gray, Passaic, N.J., U.S.A. | | { Ruth Elizabeth Millar, Edinburgh. |
| | { James Lawson Harley, Dunfermline. | | { William Gilchrist Patterson, London. |

- 23 { Leslie John Davis, Deal, Kent.
Henry Moncrieff MacGill,
West Hartlepool.
Robert James Rosie, Orkney.
Elsie Sumner, Seaforth, Liver-
pool.

- 27 { George Percy Farmar Bowers,
Belgaum, E. India.
John M'Kenzie Graham,
Assynt, Sutherlandshire.
James Denholm Mills, Jamaica.
Fraser Macintosh Rose, S.S.
River Dennis, C.B., Canada.
Jocelyn Mary Spencer Scovell,
Twickenham, S.W.
Arthur Smith, Broxburn.
James Nicholson Young, Ayr.

Second-Class Certificates.

- 34 { Arthur James Walter Allen,
London.
Charles Victor Hendry, Edin-
burgh.
John Todd, Falkirk.
Anne Margaret Turnbull,
Selkirk.
38 William John Mackintosh,
Inverness.
39 { Ralph Stockman Begbie,
Edinburgh.
Phyllis Mary Holdsworth
Lunn, London.
41 { George Simpson Marr, Leith.
Frances Agnes Redhead,
Edinburgh.
43 { Edith Isabel Myfanwy Irvine-
Jones, Edinburgh.
John Milne, M.A., Dunferm-
line.
Kenneth Robert Brown,
Preston.
Margaret Ronaldson Clark,
Rangpur, India.
45 { Robert John Reid, Buckie.
Forbes M'Donald Walker,
Edinburgh.
Alexander M'Leod Fraser,
Inverness.
49 { Richard Philip Anthony Rigg
Preston.
Robert James Rodger, Glen-
buck.
Robert Carmichael, Falkirk.
52 { Andrew William Gardiner,
Canonbie.
Jack Symon, Dundee.

- 55 { Alexander Beveridge, Arn-
gask, Perthshire.
John Cottrell, Biddulph, Staffs.
Leo Evoristus Henderson,
Edinburgh.
William Gilbert Millar, Read-
ing.
John Reid, M.A., North
Berwick.
59 { Donald Balfour Strachan, S.
Africa.
Harry Allan, Whitburn, W.
Lothian.
James Maxwell Alston,
London.
David Band, Edinburgh.
William James Burns, Isle of
Whithorn.
61 { George M'Neill Hargreaves,
Jamaica.
William Steven M'Ewan,
Prestonpans.
Frederick Ritchie Mitchell,
Musselburgh.
Wallace Nelson, Falkirk.
George Hector Percival, Kirk-
caldy.
60 { Douglas Bell, Lockerbie.
Tom Rose Bowden, Disley,
Cheshire.
William Combe Wilson,
Burntisland.
William Darling Bertram,
Edinburgh.
73 { John Heron, Edinburgh.
Isabella Kerr, Maxwelltown.
Hugh Miller, Eyemouth.
James Sinclair, Edinburgh.

- David Arnott, Cardenden.
Robert Grant, Australia.
Agnes Lillas Jenkins, Scotland.
78 Phyllis Edyth List, Carlisle.
George Wright Simpson,
Edinburgh.
Hugh Kelso Watson, Dreg-
horn, Ayr.
James Crooks, Northampton.
Keith Harris Gillison, China.
William Jones, Chester.
84 William Morrison, Stirling.
Robert Eliot Westwood Sandi-
son, Edinburgh.
Thomas Robert Sutherland,
Edinburgh.
Stephen Lunn Hislop, Edin-
burgh.
George Horne, Edinburgh.
90 Mellis MacCulloch, Both-
kennar, Larbert.
Archibald Penman, Cowden-
beath.
Robert Selby, Fort William.
Edith Sherriff Watson, Porto-
bello.
Ewing Glen Anderson, Edin-
burgh.
Edwin Ford Boyd, New
Zealand.
Harry Hutchison Condie,
Methil.
James William Cromarty,
Orkney.
96 Archer William Dunn, Hart-
hill, Lanarkshire.
Frederick William Gavin,
Edinburgh.
Thomas Howden, Haddington.
Francis Arthur Jones, Wrex-
ham.
Alexander Robert M'Clure,
Castle Douglas.
John Renwick Somerville,
Edinburgh.
Jessie Ronald Brash, Dumfries.
Alan Moray Paterson-Brown,
Bombay.
106 William Ronald Dodds Fair-
bairn, Edinburgh.
Archibald Reid MacCallum,
Tummelbridge.
Violet Oswald, Kinross.
Agnes Frances Turner, Keith.

- David Templeton Anderson,
Bathgate.
112 Margaret Gray Falla, Selkirk.
Margaret Helen Gordon,
Wales.
Jessie Crawford Brown Sym,
Edinburgh.
Margaret Dempster Cairns,
Alloa.
116 Alexander Fraser, Inverness.
Donald Ian Macaulay, S.
Africa.
James Alexander Aitchison,
Edinburgh.
119 Frank Allardice, Forfar.
Eva Taylor Cairns, Stirling.
John Gillies, Edinburgh.
Charles Bateman, Westmor-
land.
James Arthur Cuthbert, Alloa.
Alexander Whyte Davidson,
Skirling, Peeblesshire.
123 Andrew Leitch, Dunfermline.
Robert Ian M'Alley, Brechin.
Ian Matheson Macleod, Ulla-
pool.
George Hunter Thomson,
Newcastle-on-Tyne.
Caroline Anne Elliott, Tyne-
mouth.
William Foote, Lochgelly.
Angus Elrick William
M'Lachlan, Star, Fife.
130 George Boyd Murray, Edin-
burgh.
Herbert Frithiof Nilsson
Slane, Hull.
James M'Illdowie Smellie,
Libberton, Lanarkshire.
Thomas Derrick Glaister,
Lanark.
Ferdinand Wilson Lang,
Auckland, New Zealand.
Winifred Ormerod, Bradford.
Harry Patrick, Kirkcaldy.
136 Edwin Daniel Mackay
Wallace, Edinburgh.
Jessy Winifred Ward, Peter-
borough.
Norman Bruce Williamson,
S. Shields.

PRACTICAL ELEMENTARY BOTANY.

A. Division.

First-Class Certificates.

- | | | | |
|---|-------------------------|---|-------------------------------|
| 1 | Donald Gordon Stewart | 2 | Adam Cairns White, Edinburgh. |
| | MacLachlan, Star, Fife. | 3 | John Durran, Kirriemuir. |

Second-Class Certificates.

- | | | | |
|----|---|----|--|
| 4 | Leslie John Davis, Deal, Kent.
Alexander M'Leod Fraser,
Inverness. | 17 | Ewing Glen Anderson, Edin.
Robert Moodie Condie, Methil.
William Dick Couper, Edin.
Ian Duguid, Bo'ness.
Robert Grant, Australia.
Wallace Nelson, Falkirk.
William Gilchrist Patterson,
London. |
| 7 | James Ralston Kennedy Pater-
son, Edinburgh.
Jas. Alexander Aitchison, Edin.
Harry Hutchison Condie,
Methil. | 24 | Thomas Howden, Haddington.
Alexander Robert M'Clure,
Castle Douglas.
William Marsden Ford Robert-
son, Edinburgh.
Fraser Macintosh Rose, S.S.
River Dennis, C.B., Canada.
Arthur Smith, Broxburn.
John William Starkey, Stir-
ling. |
| 12 | William Jones, Chester.
Herbert Reynolds Morgan
Richards, Llandegfan.
John Todd, Falkirk.
Thomson Bonar, Rome, Italy.
Robert Carmichael, Falkirk.
Alexander Fraser, Inverness.
Jas. Lawson Harley, Dunferm-
line.
David George Aimers Stewart,
M A., Edinburgh. | | |

B. Division.

First-Class Certificates.

- | | | | |
|---|---------------------------------------|---|---|
| 1 | William Gilbert Millar, Read-
ing. | 2 | Arthur James Walter Allen,
East Wemyss.
Edmund Robert Boyd, Edin. |
|---|---------------------------------------|---|---|

Second-Class Certificates.

- | | | | |
|---|---|---|--|
| 4 | John M'Kenzie Graham, Assynt,
Sutherlandshire. | 9 | Ralph Stockman Begbie, Edin.
Leo Evoristus Henderson,
Edinburgh. |
| 5 | William James Burns, Isle of
Whithorn. | | Charles John Swanson, Perth-
shire. |
| 5 | James William Cromarty, St
Andrews, Orkney. | | James Nicholson Young, Ayr. |
| 7 | Leslie George Blair, Birken-
head, Cheshire. | | |
| 7 | Joseph Jefferson Coulthard,
England. | | |

C. Division.

First-Class Certificates.

- | | | | |
|---|---|---|---------------------------|
| 1 | Margaret Gilmour Maxwell,
Edinburgh. | 2 | Winifred Wood, Edinburgh. |
|---|---|---|---------------------------|

Second-Class Certificates.

3	Charles Bateman, Westmorland.	12	Edwin Ford Boyd, New Zealand.
	Tom Rose Bowden, Disley, Cheshire.		John Myles Caie, Forfar.
	George Percy Farmer Bowers, Belgaum, East India.		John Cottrell, Biddulph, Staffs.
7	Llewelyn Courtenay Palmer Jones, Newtown.	19	William Goldie Dobson, Bathgate.
	Keith Harris Gillison, China.		Isabella Kerr, Maxwelltown.
9	Robert James Rosie, Orkney.		John Alexander Shaw, Midlothian.
	Alexander Malcolm Kerr, Abdie, Fife.	19	George Wright Simpson, Edinburgh.
	John Thomson M'Ouat, Logiealmond, Perthshire.		Hugh Miller, Eyemouth.
	George Hector Percival, Kirkcaldy, Fife.		Richard Philip Anthony Rigg, Preston.
			Agnes Frances Turner, Keith.
			Edith Sherriff Watson, Portobello.

D. Division.*First-Class Certificates.*

1	Jocelyn Mary Spencer Scovell, Twickenham.	2	Winifred Ormerod, Bradford.
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Second-Class Certificates.

3	Ruth Elizabeth Millar, Edin.	11	Caroline Anne Elliott, Tyemouth.
	Agnes Mary Allan, Stockport.		Margaret Malcolm Meikle, Ayrshire.
4	Margaret Gray Falla, Selkirk.		William Morrison, Stirling.
	Margaret Ronaldson Clark, Rangpur, India.	14	Phyllis Mary Holdsworth Lunn, London.
6	Helen Black Ewart, Kirkcudbrightshire.		Violet Oswald, Kinross.
	Anita Helene Macleod Ross, Edinburgh.		Elsie Sumner, Seaforth, Liverpool.
	Winifred Margaret Small, Edinburgh.		
	Stephanne Sebastian Lombard Steyn, South Africa.		

ISAAC BAYLEY BALFOUR, M.D., D.Sc., *Professor.***ELEMENTARY ZOOLOGY**

* (ARTS, SCIENCE, AND MEDICINE).

First-Class Certificates.

1	James L. N. Dinwiddie.	5	Helen B. Ewart
	Alison Maxwell Wood.		David D. Paterson.
	Caroline Elliot.	7	Mary E. H. Muir.
4	John M. Henderson.		Ronald C. Fisher.

Second-Class Certificates.

- | | | | |
|----|---|----|--|
| 9 | { Margaret G. C. Currie.
Winifred Ormerod. | | |
| 11 | { Nora Lister. | 24 | { Aileen M. Chester.
Hilda M. Davis.
R. W. Freeman.
Ruth E. Millar.
Elsie Thomson. |
| 12 | { Thomas Corson.
Edith I. M. Irvine-Jones.
Constance T. Thom. | 29 | { Frances A. Redhead.
Jean S. Bow. |
| 15 | { Margaret G. Maxwell.
Doris M. Hopps. | 30 | { Quintin Dunlop.
Anne M. Turnbull.
Elspeth H. R. Livingstone. |
| 17 | { Walter P. Kennedy.
Annie Milroy. | 33 | { Ellen A. Morrison.
Janet M. Morton. |
| 19 | { Evelyn E. Baird.
Harriette G. Bogle.
Isabella Kerr. | 36 | { Eva Taylor Cairns.
Edward Gibson. |
| 21 | { Kathleen B. Lorraine.
Jane C. McGeorge. | | |

PRACTICAL ZOOLOGY

(ARTS, SCIENCE, AND MEDICINE).

First-Class Certificates.

- | | | | |
|---|------------------------|---|------------------------------------|
| 1 | James L. N. Dinwiddie. | 5 | { Eva T. Cairns.
Elsie Thomson. |
| 2 | Walter P. Kennedy. | 7 | Phyllis E. List. |
| 3 | Doris M. Hopps. | 8 | Alison Maxwell Wood. |
| 4 | Nora Lister. | 9 | R. C. Fletcher. |

Second-Class Certificates.

- | | | | |
|----|---|----|---|
| 10 | { Margaret G. C. Currie.
Archibald Fairbairn.
Alexander D. Lindsay. | 31 | { Jean S. Bow.
Ellen A. Morrison. |
| 13 | { Thomas Corson. | | { Margaret H. Gordon.
Margaret M. Meikle.
Christina Morrison. |
| 14 | { Aileen Chester.
Elizabeth Baxendine.
Helen B. Ewart. | 33 | { Janet M. Morton.
Mary E. H. Muir.
David D. Paterson. |
| 15 | { Ruth E. Millar.
Jocelyn M. S. Scovell.
Vera Thompson. | 39 | { Ethel A. Stothard.
Evelyn E. Baird.
Quintin Dunlop. |
| 20 | { Harriette G. Bogle. | 40 | { Winifred Ormerod.
Ann F. G. Smith.
Elizabeth K. Clark. |
| 21 | { Honor B. Fell. | 44 | { Margaret R. Clark.
Margaret E. Roberts. |
| 22 | { Isabel M. A. Doeg.
Elspeth Livingstone. | 47 | { Alexander B. S. Boswell.
Mary Wilson. |
| 24 | { Margaret Maxwell.
Annie M. Turnbull. | | { Jessie R. Brash. |
| 26 | { Edith I. M. Irvine-Jones.
Constance Thom. | 49 | { E. D. Proctor Beauchamp.
Rhoda B. V. Robb. |
| 28 | { Dorothy Wilson. | | |
| 29 | { Flora H. M. Calder.
Dorothy F. Smith. | | |

*Summer 1919.***ELEMENTARY ZOOLOGY.***First-Class Certificates.*

- | | | | |
|---|-----------------------|---|---------------------|
| 1 | Jas. R. K. Paterson. | | |
| 2 | Adam C. White. | 6 | Leslie John Davis. |
| | William G. Patterson. | | Andrew W. Gardiner. |
| 3 | Edmund R. Boyd. | | James A. More. |
| | Robert Carmichael. | | |

Second-Class Certificates.

- | | | | |
|----|-------------------------|----|---------------------------|
| 9 | Robert Grant. | | W. C. L. Angus. |
| | Donald G. S. M'Lachlan. | | James D. Dear. |
| 11 | Geo. P. Farmar Bowers. | | Charles W. Durward. |
| | David T. Mackie. | | Archd. R. M'Callum. |
| | L. G. Blair. | | Alex. R. M'Clure. |
| 13 | T. Ritchie. | 42 | Wallace Nelson. |
| | Alexander Scott. | | John H. Penman. |
| 16 | Harry Patrick. | | Robert John Reid. |
| | Robert Selby. | | John Alex. Shaw. |
| | John Gray. | | James M'I. Smellie. |
| 18 | Wm. J. Mackintosh. | | George Wilson. |
| | John Todd. | | Ralph S. Begbie. |
| | Harry H. Condie. | | Tom Rose Bowden. |
| | John Cottrell. | | Joseph Braithwaite. |
| 21 | John T. M'Ouat. | | Andrew J. M. Butter. |
| | Charles John Swanson. | 53 | James Crooks. |
| | Wm. J. Burns. | | Alex. Fraser. |
| | J. S. Henry. | | Francis A. Jones. |
| 25 | Robert E. Rosie. | | Geo. H. Percival. |
| | Jack Symon. | | Frank B. Thomson. |
| | Kenmure J. Thomson. | | Basil N. V. Bailey. |
| | David Arnott. | | William Jones. |
| 30 | Fraser M. Rose. | | Andrew S. M'Culloch. |
| | James Sinclair. | | Henry M. MacGill. |
| 33 | James L. Harley. | 62 | Hugh Miller. |
| | W. Gilbert Millar. | | Fred R. Mitchell. |
| | James M. Alston. | | David G. A. Stewart, M.A. |
| | Thomson Bonar. | | William Wallace. |
| | J. T. Campbell. | | Kenneth R. Brown. |
| 35 | J. J. Coulthard. | | James D. S. Cameron. |
| | Hugh L. Mackintosh. | | Robert M. Condie. |
| | John Durran. | | Andrew M'Dowall. |
| | George W. Simpson. | 70 | Herbert R. M. Richards. |
| | | | Arthur Smith. |
| | | | Wm. C. Wilson. |
| | | | James N. Young. |

- Frank Allardice.
 E. F. Boyd.
 A. M'Leod Fraser.
 Alex. B. Guild.
 Robert I. M'Alley.
 Wm. A. M'Dowall.
 78 { Ian G. MacGregor.
 H. B. Porteous.
 John J. Robb.
 Gilbert M. Ross.
 Forbes M'D. Walker.
 David H. D. Young.
 Wilfred J. Butterworth.
 Lachlan G. Campbell.
 Ian Duguid.
 William Foote.
 Chas. V. Hendry.
 John Heron.
 Alex. Leishman.
 90 { Ian G. Macpherson.
 Angus MacRae.
 Archibald Penman.
 Adam L. K. Rankin.
 W. C. S. B. Sewry.
 H. W. Sutherland.
 Thos. R. Sutherland.
 Leslie M. Thompson.

- James A. Aitchison.
 Douglas Bell.
 Thos. D. Burt.
 Gabriel G. King.
 Andrew Leitch.
 Cecil G. A. Salvesen.
 105 { Robert I. Sharp.
 Brian G. Thompson.
 George H. Thomson.
 Wm. S. Urquhart.
 N. B. Williamson.
 Alex. Wm. Wilson.
 Roland P. Wilson.
 Harry Allan.
 Ewing G. Anderson.
 Charles Bateman.
 118 { Antonio G. Coia.
 Keith H. Gillison.
 J. A. Robertson Selby.
 Andrew Simpson.
 David T. Anderson.
 J. Myles Caie.
 Wm. D. Couper.
 125 { Alex. W. Davidson.
 Robert H. Dunlop.
 James F. Menzies.
 Harold V. Thwaites.

J. H. ASHWORTH, D.Sc., F.R.S., *Lecturer.*
 J. C. EWART, M.D., F.R.S., *Professor.*

ANATOMY.

First-Class Certificates.

- 1 W. M. Wilson, Edinburgh.
 2 { D. G. Anderson, Carlisle.
 D. S. Cherry, East Calder.
 4 A. M. Marr, Edinburgh.
 Davie A. Bannerman, Madras.
 5 { W. M. Forster, Musselburgh.
 Ruth E. Millar, Edinburgh.
 John Sturrock, Edzell.
 9 W. N. Brown, Edinburgh.
 10 { E. R. Boyd, Edinburgh.
 Harriette G. Bogle, Larbert.
 11 { Margaret L. Muir, Ayr.
 Rose A. Thomsen, Leith.
 T. M. Millar, Scotland.
 14 { Elsie Thomson, Hong-kong.
 J. B. Young, Ayrshire.
- 17 { J. L. N. Dinwiddie, Ruthwell.
 Margaret G. Maxwell, Edin.
 C. J. Swanson, Glenshee.
 20 { Robert Dick, Australia.
 H. R. Potter, Derbyshire.
 Donald Macdonald, Stornoway.
 22 { Alison M. Wood, Scotland.
 William Parker, Fife.
 24 { F. B. Thomson, Hong-Kong.
 Helen B. Ewart, Kirkcudbrightshire.
 26 { A. W. Gardiner, Dumfriesshire.
 Phyllis E. List, Cumberland.
 V. G. H. Wallace, Kirkcaldy.

- 30 { Robert Carmichael, Falkirk.
Doreen Stranger, Cheltenham.
A. C. White, Edinburgh.
33 { Hilda M. Davis, London.
I. H. Maciver, Ross-shire.
J. H. Williams, Birkenhead.

- 36 { Charles Bateman, Westmoreland.
J. A. Hart, Scotland.
Harold Jamieson, Nairn.
H. J. Kirkpatrick, Taunton.
Nora Lister, Fife.
Mary Wilson, Linlithgow.

Second-Class Certificates.

- 42 { S. F. Allison, Greenock.
J. W. P. Collier, Edinburgh.
James Crooks, Northampton.
H. H. Dunlop, Edinburgh.
Eva G. John, Boston.
Constance T. Thom, Edin.
G. H. Morrison, Thurso.
48 { Archibald Penman, Cowdenbeath.
Margaret G. Currie, Leith.
Edith Irvine Jones, Edin.
I. H. Maclean, New Zealand.
50 { Jean Lorrain Smith, Belfast.
B. G. Thompson, New Zealand.
G. H. Thomson, Newcastle.
David Band, Edinburgh.
56 { E. P. Boyle, Dumfries.
Eva T. Cairns, Stirling.
A. W. Wilson, London.
Elizabeth P. Beauchamp, China.
60 { F. L. Buttar, Musselburgh.
E. J. G. Glass, N. Berwick.
E. B. Mercer, Stow.
Jocelyn M. Scovell, Twickenham.
J. N. Young, Ayr.
R. S. Begbie, Edinburgh.
T. D. Burt, Edinburgh.
Isabella Falconer King, Scotland.
66 { Elspeth H. Livingstone, Penrith.
P. A. M'Credie, Stranraer.
Solomon Pekkoon, S. Africa.
Jeanne V. Rees, Edinburgh.
N. B. Williamson, South Shields.
74 { W. H. Carter, Sunderland.
Caroline A. Elliot, Tyemouth.
G. M. Hargreaves, Jamaica.
Isabella Kerr, Dumfries.
E. Bruce Low, Edinburgh.

- 79 { Elizabeth A. Baxendine, Portobello.
Joseph Braithwaite, Linlithgow.
Margaret D. Cairns, Alloa.
F. W. Gavin, Edinburgh.
R. D. Miller, Ayrshire.
P. V. Pritchard, S. Africa.
Rhoda B. Robb, Stirling.
86 { Jessie R. Brash, Dumfries.
C. D. Kennedy, Stornoway.
Vera Thompson, W. Hartlepool.
89 { Reuben Levinson, Edinburgh.
Andrew M'Dowall, Bradford.
W. J. Blackley, Lanarkshire.
J. W. Cromarty, Orkney.
91 { Margaret H. Gordon, Wales.
David Grieve, Carlisle.
C. S. Nimmo, Edinburgh.
J. D. S. Cameron, Montrose.
Dorothy A. Christie, China.
96 { E. J. Crawford, Ireland.
I. M. D. Grieve, Aberfeldy.
R. M. Macfarlane, Leadhills.
R. J. Reid, Buckie.
Robertha Burt, Dunfermline.
Aileen M. Chester, Nottingham.
Isabel M. Doeg, Selkirk.
C. A. G. Galletly, Edinburgh.
102 { A. M. M. Grierson, Edin.
Elizabeth M. Lindsay, Golspie.
J. V. Neilson, Edinburgh.
R. P. A. Rigg, Preston.
R. J. Rosie, Orkney.
T. R. Sutherland, Edinburgh.
E. D. M. Wallace, Edinburgh.
Jean S. Bow, Airth.
W. S. M'Ewan, Prestonpans.
R. C. Speirs, Edinburgh.
113 { Alice Steven, Featherstone.
F. M. Walker, Edinburgh.
E. P. Waters, Darlington.

	W. J. Butterworth, Rochdale.		Angus Campbell, Killin.
	J. D. Dear, Edinburgh.		D. S. Fairweather, Clitheroe.
	J. B. Mackie, Staffordshire.		W. F. Hamilton, India.
119	Ellen A. Morrison, Bannockburn.	142	Doris M. Hopps, Scotland.
	Hilda Page, London.		A. Lilies Jenkins, Leith.
	Ann G. Smith, Leith.		R. T. Sharp, Edinburgh.
	A. M. Turnbull, Jedburgh.		George Somerville, Edin.
	D. H. D. Young, Tillicoultry.	149	L. C. Palmer Jones, Wales.
	A. K. James, Edinburgh.		G. A. Masson, Scotland.
	Frances A. Redhead, Edin.		A. L. Clark, Broughty Ferry.
127	Alfred Rosenbloom, Edin.		Kathleen B. Lorraine, Castle Douglas.
	W. S. B. Sewrey, S. Africa.	151	Jane M. McGeorge, Dumfries.
	Helen E. Slater, England.		Annie H. Sutherland, Wick.
132	J. S. Faulds, Glasgow.		J. B. Adamson, Fife.
	Alex. B. Guild, Tranent.		H. R. Haigh, S. Africa.
	Margaret A. Craig, Kirkcudbright.	155	Helen W. Mackenzie, India.
	G. R. Kennedy, Fife.		J. C. Tainsh, Grimshy.
	A. R. MacCallum, Scotland.		Margaret R. Clark, India.
134	Janet M. Mackay, Fort William.		C. E. V. Owen, Wales.
	Helen S. Maclaren, Kirkcaldy.	159	Christopher Simpson, Fife.
	J. J. Mason, Kirkcaldy.		W. A. Simpson, Grangemouth.
	Winifred Ormerod, Bradford.		D. A. Urquhart, Sutherland.
	Violet Oswald, Scotland.		Winifred Wood, Edinburgh.

PRACTICAL ANATOMY.

A—IN UNIVERSITY BUILDINGS.

Section I.—Whole Session.

First-Class Certificates.

1	D. T. McDonald, Northumberland.	19	A. M. Marr, Edinburgh.
2	G. D. Steven, Ayrshire.		C. J. Swanson, Glenshee.
3	T. M. Millar, Scotland.		E. R. Boyd, Edinburgh.
4	W. M. Wilson, Edinburgh.	21	Percy Pritchard, South Africa.
	J. L. N. Dinwiddie, Ruthwell.		John Sturrock, Edzell.
5	A. A. M. Sandison, Orkney.		R. S. Begbie, Edinburgh.
	James Williams, Dumfries.		E. M. Jenkins, Sheffield.
	K. B. Williamson, S. Shields.		C. D. Kennedy, Stornoway.
9	J. C. B. Craig, Lockerbie.	24	Ronald Munro, Blackburn.
	W. N. Brown, Edinburgh.		Donald Macdonald, Stornoway.
	E. S. Gordon, Glasgow.		H. R. Potter, Derbyshire.
10	R. A. C. McIntosh, Invergordon.		P. W. Tait, Leith.
	I. R. Cameron, Australia.		C. B. Thomson, Dublin.
13	Thomas Ferguson, Falkirk.		J. A. Hart, Scotland.
	Andrew Macfarlane, Leadhills.	32	G. W. Ireland, South Africa.
	A. M. W. Rae, Arbroath.		H. D. McKinn, Huddersfield.
17	E. P. Boyle, Dumfries.		A. J. Wilson, Whitehaven.
	D. S. Cherry, East Calder.		J. N. Young, Ayrshire.

- 37 Robert Carmichael, Falkirk.
G. M. Hargreaves, Jamaica.
H. J. R. Kirkpatrick, Taunton.
R. D. Miller, Ayrshire.
A. C. White, Edinburgh.
B. M. Dick, Kendal.
A. W. Gardiner, Dumfriesshire.
42 S. L. Lucas, Edinburgh.
D. A. B. Macnicol, Glasgow.
R. J. Reid, Buckie.
John Campbell, Killin.
George Ogilvie, Edinburgh.
47 R. J. Rosie, Orkney.
E. D. M. Wallace, Edinburgh.

- 51 R. G. Inkster, Edinburgh.
I. C. Middleton, Hamilton.
Herbert M'Nair, Preston.
James Thomson, Cumberland.
Ernest Bulmer, Newcastle.
G. G. Cochrane, Bo'ness.
W. S. Macdonald, Invergordon.
William Parker, Fife.
55 G. H. Percival, Kirkcaldy.
A. R. Semple, Dumfries.
W. S. B. Sewrey, South Africa.
V. G. H. Wallace, Kirkcaldy.
J. H. Williams, Birkenhead.
A. W. Wilson, London.

Second-Class Certificates.

- 65 James Crooks, Northampton.
A. H. Mowat, Lybster.
Joseph Braithwaite, Linlithgow.
James Brown, Fraserburgh.
67 J. F. Cunningham, Edinburgh.
F. W. Gavin, Edinburgh.
D. M. Scrimgeour, Dundee.
W. H. Carter, Sunderland.
72 A. R. Gilchrist, Edinburgh.
J. S. Hovell, Edinburgh.
S. M. Alexander, Kelso.
75 J. W. Anderson, Edinburgh.
R. T. Sharp, Edinburgh.
S. F. Allison, Greenock.
A. B. Guild, Tranent.
A. J. Kilgour, Fife.
Andrew M'Dowall, Bradford.
78 G. W. J. Mackay, Barra.
K. A. Macrae, Bonar Bridge.
G. H. Thomson, Newcastle.
N. B. Williamson, S. Shields.
P. A. M'Credie, Stranraer.
I. H. Maclean, New Zealand.
86 J. V. Neilson, Edinburgh.
John Walker, Uphall.
Angus Campbell, Killin.
J. S. Harris, Lincolnshire.
90 Arch. Penman, Cowdenbeath.
A. G. Smith, Aberdeenshire.
Reuben Abramsky, Moscow.
Frank Booth, Halifax.
94 J. C. Moir, Montrose.
R. M. Macfarlane, Edinburgh.
J. D. Robertson, Edinburgh.
J. W. Cromarty, Orkney.
99 R. C. Little, North Borneo.
W. J. R. Pickles, Wakefield.

- D. G. Anderson, Carlisle.
David Grieve, Carlisle.
I. S. Hall, Glasgow.
E. G. Hunter, Sunderland.
102 Kenneth Lumsden, Leeds.
D. P. M'Iver, Argyllshire.
W. A. Simpson, Grangemouth.
F. M. Walker, Edinburgh.
H. H. Dunlop, Edinburgh.
I. M. D. Grieve, Aberfeldy.
110 G. R. Kennedy, Fife.
Geo. Somerville, Edinburgh.
D. A. Urquhart, Sutherland.
L. C. Palmer Jones, Wales.
Robert Lockhart, Kirkcaldy.
115 A. J. Moore, Sutherland.
H. G. Stockley, Ceylon.
D. H. D. Young, Tillicoultry.
W. M. Lloyd, Wales.
E. B. Mercer, Stow.
C. A. Murray, Dalbeattie.
120 J. B. Mackie, Staffordshire.
R. M. Saunders, London.
J. B. Young, Ayrshire.
J. D. S. Cameron, Montrose.
John Cameron, Edinburgh.
W. F. Mair, Edinburgh.
W. S. M'Ewan, Prestonpans.
126 H. L. Nicholas, Jamaica.
W. H. Ramsay, Alloa.
T. R. Sutherland, Edinburgh.
H. G. Triay, Gibraltar.
W. S. Woodburn, Glasgow.
135 W. M. Forster, Musselburgh.
Reuben Levinson, Edinburgh.
J. D. Macdonald, Dingwall.

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| <p>138 { D. S. Fairweather, Clitheroe.
Milorad Petrovitch, Serbia.
R. C. Speirs, Edinburgh.
William Wallace, Dumfries.
142 { W. N. Chisholm, Murthly.
J. G. Cormack, Edinburgh.
R. W. Eason, South Africa.
Harold Jamieson, Nairn.
David Band, Edinburgh.
Charles Bateman, Westmoreland.
146 { W. G. Hardie, Ecclefechan.
J. M. Manson, Alloa.</p> | <p>150 J. J. Mason, Kirkcaldy.
151 { W. F. Hamilton, India.
A. S. Nicol, Cumnertrees.
153 { J. B. Adamson, Fife.
J. S. Faulds, Glasgow.
E. A. Haslam Fox, St Helens.
156 { H. R. Haigh, South Africa.
W. J. Royle, Manchester.
Henry Miller, Chorley.
158 { A. J. Pinkinsky, Edinburgh.
E. P. Waters, Darlington.</p> |
|--|---|

Section II.—Autumn Term.

First-Class Certificates.

- | | |
|---|---|
| <p>1 { E. D. Dingle, Co. Durham.
G. S. Mackay, Scotland.
3 J. R. M'Donald, Northumberland.
4 D. R. Cramb, Edinburgh.
5 W. R. Levie, Hartlepool.
6 J. H. Clarke, Scotland.
7 { K. D. MacKintosh, Assam.
G. B. Walker, Forfarshire.</p> | <p>9 { J. C. Adam, Forres.
P. K. Walker, Dunfermline.
J. E. M'William, Roscommon.
11 { A. J. Shedden, Scotland.
J. H. Wright, Birmingham.
J. M. Bonar, Glasgow.
14 { E. A. Carmichael, Edinburgh.
O. S. Gibbs, Loughborough.
Joseph Martin, Whithorn.</p> |
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Second-Class Certificates.

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| <p>18 { A. M. Duff, Scotland.
F. W. Rawlings, Manchester.
20 { R. P. Bliss, Edinburgh.
J. C. Cruickshank, Edinburgh.
J. A. Fraser, Fife.
G. J. Alexander, Edinburgh.
W. S. Burr, Kilsyth.
23 { J. S. Fulton, Scotland.
C. M. Thompson, West Hartlepool.
Edwin Clark, Gatehouse-of-Fleet.
27 { J. K. Slater, Edinburgh.
G. M. Bell, Galashiels.
George Brewster, Stirlingshire.
29 { J. C. Caird, Edinburgh.
D. S. Middleton, S. Africa.
P. J. M'Diarmid, Perthshire.
W. M. Robb, Blairgowrie.</p> | <p>{ C. W. Burns, Portobello.
Sam Lipetz, Edinburgh.
35 { T. R. C. Spence, Shetland.
D. C. Wilson, Anstruther.
J. T. Wilson, Lockerbie.
J. M. Blair, Girvan.
40 { Thomas Brewis, Edinburgh.
N. S. Craig, Berwick-on-Tweed.
I. D. Stronach, Edinburgh.
44 C. I. Irvine Jones, Edinburgh.
45 A. D. M. Young, Arbroath.
46 D. G. Coutts, Kirkcaldy.
47 F. D. M. Beaton, Glasgow.
48 S. C. Alcock, Derby.
49 Alexander Stuart, Broxburn.</p> |
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Section III.—Spring Term.

First-Class Certificates.

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|----|--------------------------------|----|----------------------------------|
| 1 | { D. J. Corner, Edinburgh. | 17 | { J. M. Henderson, Ayr. |
| | { James Glover, Shetland. | | { J. T. Bell Nicoll, Scotland. |
| 3 | { K. F. Caird, Edinburgh. | | { R. P. Wilson, New Zealand. |
| | { S. M. Smith, Edinburgh. | 20 | { F. L. Buttar, Musselburgh. |
| 5 | { C. W. Durward, Leven. | | { John Lambert, Auchtermuchty. |
| 6 | { K. S. Dick, Ayrshire. | | { A. J. M. Butter, Perth. |
| | { A. M. Kerr, Fifeshire. | | { W. B. Reid, Australia. |
| 8 | { R. D. Bradshaw, Edinburgh. | 22 | { Robert Selby, Wigtownshire. |
| | { H. D. Hayes, Peebles. | | { L. M. Thompson, Nairn. |
| | { W. R. Fairbairn, Edinburgh. | | { K. J. Thomson, South Africa. |
| 10 | { G. W. Monro, Stranraer. | | { W. J. Blackley, Lanarkshire. |
| | { J. S. MacGill, Amsterdam. | 27 | { A. L. K. Rankin, Tighna- |
| | { D. G. A. Stewart, Edinburgh. | | { bruaich. |
| 14 | { Wallace Nelson, Falkirk. | 29 | { G. M. Westwood, Wemyss. |
| 15 | { Dugald Cameron, Argyle. | | { Walter Campbell, Kely. |
| | { H. K. Corkill, New Zealand. | 30 | { E. Bruce Low, Edinburgh. |
| | | | { A. R. McClure, Castle Douglas. |

Second-Class Certificates.

- | | | | |
|----|----------------------------------|----|-----------------------------------|
| 33 | { Harry Hastings, Edinburgh. | | { G. G. Brander, Nairnshire. |
| | { George Horne, Edinburgh. | | { R. T. Grace, New Zealand. |
| | { W. D. Paterson, Leith. | 62 | { Tom Howden, Haddington. |
| | { George Black, South Africa. | | { L. J. Johnston, Edinburgh. |
| | { L. G. Blair, Birkenhead. | | { R. A. C. Macnair, London. |
| 36 | { John Gray, United States. | | { O. L. Shearer, South Africa. |
| | { B. G. Thompson, New Zealand. | | { D. A. Bertram, Edinburgh. |
| | { F. B. Thomson, Hong-Kong. | | { Hyman Greenberg, S. Africa. |
| | { Thomas Tully, Edinburgh. | 68 | { J. G. Leebody, Corstorphine. |
| 42 | { Alexander Leishman, Dumfries. | | { Ralph Morton, Dumfries. |
| | { I. H. Maciver, Ross-shire. | | { C. G. A. Salvesen, Helsingfors. |
| 44 | { C. R. Wilson, Cheshire. | | { H. K. Watson, Ayrshire. |
| 45 | { G. A. Dunlop, Lancashire. | 74 | { George Robson, Edinburgh. |
| | { Walter Wyatt, Portobello. | | { William Anderson, Jedburgh. |
| | { J. M. Campbell, North Berwick. | 75 | { A. D. Gould, Edinburgh. |
| | { G. A. Masson, Scotland. | | { H. J. Hart, Canada. |
| | { G. S. Scott, Enfield. | | { W. J. Burns, Isle of Whithorn. |
| 47 | { D. A. Shearer, Portobello. | | { J. M. Cowan, Dumfriesshire. |
| | { A. V. Thwaites, S. Australia. | 78 | { R. T. Deas, Edinburgh. |
| | { George Wilson, Edinburgh. | | { M. A. Graham Yool, Edinburgh. |
| | { Alex. Beveridge, Edinburgh. | | { William Boyd, Galashiels. |
| 53 | { J. G. Currie, Portobello. | 82 | { E. K. R. Firth, Burma. |
| | { L. E. Henderson, Edinburgh. | | { John Lamb, Brechin. |
| | { W. R. Duff, Leith. | | { R. V. Liddell, Shanghai. |
| 56 | { N. H. A. Mackinnon, Leith. | 86 | { A. J. M. Findlater, India. |
| | { C. A. Snowdowne, S. Africa. | | { G. W. Yule, Cowdenbeath. |
| | { D. B. Strachan, Scotland. | 88 | { J. A. Richardson, Darlington. |
| | { P. S. Henderson, Dalkeith. | | { W. M. Ross, Edinburgh. |
| 60 | { E. D. M. Wright, Palestine. | | |

B—IN BRISTO STREET DEPARTMENT.

First-Class Certificates.

- | | | | |
|----|---|----|---|
| 1 | { Harriette G. Bogle, Larbert.
Jean M. Connachie, Selkirk. | 17 | { Helen Blacklay, Ireland.
Eva Stewart, Edinburgh. |
| | { Jessie Eeles, Leith.
Elizabeth R. Garrigan, Edin. | | { Ruth E. Millar, Edinburgh. |
| 5 | { Janet M. Henderson, Ayr. | 19 | { Vera Thompson, W. Hartle-
pool. |
| 6 | { Rose A. Thomsen, Leith.
Hilda R. Hay, Stranraer. | | { Margaret G. Maxwell, Edin-
burgh. |
| | { Margaret L. Muir, Ayr. | 21 | { Charlotte E. Thompson, Edin-
burgh. |
| 7 | { Christian M. B. Welsh, West
Calder. | | { Margaret I. Bower, Preston-
pans. |
| 10 | { Alison M. Wood, Scotland. | 23 | { Caroline A. Elliot, Tynemouth.
Jeanie Wilson, India. |
| 11 | { Jean Lorraine Smith, Belfast.
Constance T. Thom, Edin. | | |
| | { Helen B. Ewart, Kirkcud-
brightshire. | | |
| 13 | { Flora M. Hogg, Selkirk.
Elsie Thomson, Hong-Kong.
Annie E. Webster, Galashiels. | | |

Second-Class Certificates.

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|----|--|----|--|
| 26 | { Catherine Ketchin, Pathhead
Ford.
Nora Lister, Fifeshire. | 46 | { Jane G. Burnet, Aberdeen-
shire.
Jane C. McGeorge, Dumfries. |
| | { Jessie Strang, Lanarkshire.
Elizabeth Baxendine, Porto-
bello. | | { Florence E. Telfer, Tarbet.
Jean S. Bow, Airth. |
| 29 | { Margaret A. Craig, Kirkcud-
bright.
Jessie E. Munro, Scotland. | | { Hilda M. Davis, London.
Gladys H. Dodds, Kirkcaldy. |
| | { Ruth M. Tait, Scotland. | 49 | { Isabella Doeg, Selkirk.
Grace M. Dover, India. |
| | { Margaret Alice, Alloa. | | { Margaret W. Kemp, Selkirk.
Isabella Kerr, Dumfries. |
| | { Margaret R. Clark, India. | | { Margaret Burnett White,
Grangemouth. |
| 33 | { Margaret H. Gordon, Wales.
Edith I. Irvine Jones, Edin-
burgh. | | { Kathleen S. Campbell, London.
Aileen M. Chester, Notting-
ham. |
| | { Isabella Taylor, Oban. | 57 | { Irene V. E. Christison, Edin-
burgh. |
| | { Dorothy A. Christie, China. | | { Helen L. Fisher, Dunfermline. |
| 38 | { Dorothea Norwell, Perth.
Ann F. G. Smith, Leith. | | { Annie Haddow, Lanarkshire. |
| | { Cicely M. Steven, Edinburgh. | | { Winifred Ormerod, Bradford. |
| | { Doreen Stranger, Cheltenham. | | { Hazel Watt, Calcutta. |
| | { Mary Wilson, Linlithgow. | | { Davie A. D. Bannerman,
Madras. |
| 44 | { Margaret D. Cairns, Alloa.
Annie M. Turnbull, Jed-
burgh. | 64 | { Margery Bennet, Bristol.
Flora H. Calder, Edinburgh. |
| | | | { Janie C. King, Scotland. |
| | | | { Helen W. Mackenzie, India. |
| | | | { Winifred Wood, Edinburgh. |

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|---------------------------------|----------------------------------|
| Phyllis E. List, Cumberland. | Evelyne Baird, Cambuslang. |
| Ellen A. Morrison, Bannock- | Lillian R. Duffy, Shanghai. |
| burna. | Mary C. Campbell, Edin- |
| Janet M. Morton, Dumfries. | burgh. |
| 70 E. Muriel Mackay, Edinburgh. | Betty Macdonald, Lancashire. |
| Catherine J. Maclaren, York- | A. Ethel Stothard, Penang. |
| shire. | Elspeth H. Livingstone, Pen- |
| Kate Y. Pearson, Kent. | rith. |
| Christina B. Ross, Wick. | 97 Jeanne V. Rees, Edinburgh. |
| Elizabeth G. Blair, Kirkcaldy. | Anna M. Edward, Wigtown. |
| 77 S. S. Murdoch, N. S. Wales. | Helen S. M'Laren, Kirkcaldy. |
| Robertha Burt, Dunfermline. | 99 Alice Steven, Featherstone. |
| Jeannie Kean, Lerwick. | Margaret S. Williamson, Kin- |
| Frances A. Redhead, Edin- | ross. |
| burgh. | Annabella M'Garrity, Lead- |
| Jocelyn M. Scovell, Twicken- | hills. |
| ham. | 103 Dorothy F. Smith, England. |
| Margaret G. Bowie, Scotland. | Helen Coventry, Leith. |
| Jessie R. Brash, Dumfries. | Violet Oswald, Scotland. |
| Eva T. Cairns, Stirling. | 105 Dorothy M. Swan, Old Kil- |
| 83 Margaret A. Fisher, Ireland. | patrick. |
| Elizabeth R. Kemp, Dumfries. | Janie M. Brown, Ayrshire. |
| Rhoda B. Robb, Stirling. | 108 A. Margaret Hunter, Perth- |
| Marjory Ewing, Scotland. | shire. |
| 89 Doris M. Hopps, Scotland. | Margaret G. Currie, Leith. |
| 91 Hilda Page, London. | 110 Kathleen B. Lorraine, Castle |
| | Douglas. |
| | 112 Sheila R. Ross, Spain. |

REGIONAL ANATOMY.

Section I.—Whole Session.

First-Class Certificates.

- | | |
|-------------------------------|-------------------------------|
| 1 J. R. M'Donald, Northumber- | 3 W. M. Robb, Blairgowrie. |
| land. | 4 W. R. Levie, W. Hartlepool. |
| 2 D. T. M'Donald, Northumber- | |
| land. | |

Second-Class Certificates.

- | | |
|---------------------------------|-------------------------------|
| 5 E. D. Dingle, Co. Durham. | 16 G. B. Walker, Forfarshire. |
| H. R. Potter, Derbyshire. | Jean T. Bucknell, New South |
| 6 W. B. Reid, Australia. | Wales. |
| P. K. Walker, Dunfermline. | 17 R. G. Inkster, Edinburgh. |
| D. R. Cramb, Edinburgh. | George Ogilvie, Edinburgh. |
| 9 C. M. Thompson, W. Hartle- | Edwin Clark, Gatehouse-of- |
| pool. | Fleet. |
| 11 J. H. Clarke, Scotland. | 20 J. W. Mason, Australia. |
| 12 E. A. Carmichael, Edinburgh. | I. C. Middleton, Hamilton. |
| J. C. Cruickshank, Edinburgh. | A. J. Shedden, Scotland. |
| 13 G. S. Mackay, Scotland. | |
| J. T. Wilson, Lockerbie. | |

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|----|--------------------------------|----|-----------------------------|
| | Geo. Brewster, Stirlingshire. | | Reuben Abramsky, Moscow. |
| | J. B. Gyle, London. | | W. S. Burr, Kilsyth. |
| | Enid M. Hern, Darlington. | 51 | Mary Cheng, China. |
| 24 | C. I. Irvine Jones, Edinburgh. | | Arthur King, Monmouth. |
| | J. I. M'Caa, Ayrshire. | 55 | D. C. Wilson, Anstruther. |
| | P. J. M'Diarmid, Perthshire. | | C. W. Burns, Portobello. |
| | F. W. Rawlings, Manchester. | | Nora A. Jones, Manchester. |
| | J. C. Adam, Forres. | 56 | Muriel J. Thomson, Riga. |
| 31 | Joseph Martin, Whithorn. | | Kathleen M. Turner, Hawick. |
| | W. S. Macdonald, Invergordon. | | A. D. M. Young, Arbroath. |
| | R. P. Bliss, Edinburgh. | | J. A. Fraser, Fife. |
| | J. M. Bonar, Glasgow. | 61 | C. M. Seward, Australia. |
| 34 | O. S. Gibbs, Leicestershire. | | James Thomson, Cumberland. |
| | C. S. Nimmo, Edinburgh. | 64 | Eleanor M. Cadman, Edin. |
| | A. J. Wilson, Whitehaven. | | Sam Lipetz, Edinburgh. |
| | S. M. Alexander, Kelso. | 66 | J. C. Caird, Edinburgh. |
| | J. W. P. Collier, Edinburgh. | | H. G. Stockley, Ceylon. |
| | A. R. Gilchrist, Edinburgh. | 68 | Isobel S. Rutherford, Edin. |
| 39 | Sheila Hunter, Orkney. | | Marjorie V. B. Smith, Edin. |
| | Elizabeth T. Logan, Edin. | | Alexander Stuart, Scotland. |
| | H. D. M'Kinna, Huddersfield. | 71 | John Campbell, Killin. |
| | J. E. M'William, Roscommon. | | J. S. Fulton, Scotland. |
| | F. D. M. Beaton, Glasgow. | | |
| | J. M. Blair, Girvan. | | |
| 46 | N. S. Craig, Berwick-on-Tweed. | | |
| | D. S. Middleton, S. Africa. | | |
| | J. H. Wright, Birmingham. | | |

Section II.—Spring Term.

First-Class Certificates.

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|---|-------------------------------|---|--------------------------|
| 1 | Jessie Eeles, Leith. | 3 | G. G. Cochrane, Bo'ness. |
| 2 | K. B. Williamson, S. Shields. | | |

Second-Class Certificates.

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|----|-------------------------------------|----|------------------------------|
| 4 | Annie E. Webster, Galashiels. | 19 | I. R. Cameron, Australia. |
| | Christian M. B. Welsh, West Calder. | | J. S. Hovell, Edinburgh. |
| 6 | J. C. B. Craig, Lockerbie. | | A. J. Kilgour, Perth. |
| 7 | Jean M. Connochie, Selkirk. | | S. L. Lucas, Edinburgh. |
| | Margaret I. Bower, Prestons. | | Margaret Allice, Alloa. |
| 8 | J. F. Cunningham, Edinburgh. | 23 | Hilda R. Hay, Scotland. |
| | Andrew M'Farlane, Leadhills. | | Ronald Munro, Blackburn. |
| | A. G. Smith, Aberdeenshire. | | Jessie Strang, Lanarkshire. |
| 12 | Isabella Taylor, Oban. | | I. D. Stronach, Edinburgh. |
| | B. M. Dick, Kendal. | 28 | E. S. Gordon, Glasgow. |
| 13 | A. M. W. Rae, Arbroath. | | R. C. Little, North Borneo. |
| | Jeanie Wilson, India. | | G. B. Flint, Australia. |
| 15 | Thomas Ferguson, Falkirk. | 30 | J. D. Robertson, Edinburgh. |
| | P. W. Tait, Leith. | | Eva Stewart, Edinburgh. |
| 16 | James Williams, Dumfries. | | Doreen Stranger, Cheltenham. |

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| 34 { Frank Booth, Halifax.
Janet M. Henderson, Ayr.
Flora M. Hogg, Selkirk.
G. W. Ireland, South Africa.
Florence E. Telfer, Tarbet.
Grace M. Dover, India.
39 { D. M. Scrimgeour, Dundee.
G. D. Steven, Ayrshire.
42 { Irene V. E. Christison, Edin.
Betty Macdonald, Lancashire.
44 { Catherine G. Ketchin, Path-
head Ford. | 45 { Margery Bennet, Bristol.
Annie C. S. Haddow, Lanark-
shire.
J. C. Moir, Montrose.
Davie A. D. Bannerman,
Madras.
48 { James Brown, Fraserburgh.
Gladys H. Dodds, Kirkcaldy.
E. G. Hunter, Sunderland.
52 { Kate Y. Pearson, Kent.
Thomas Brewis, Edinburgh.
53 { Harold Jamieson, Nairn. |
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The following students have been recommended for the *John Aitken Carlyle Bursaries*:—*Senior*, E. D. Dingle; *Junior*, D. S. Cherry.

The following students have been recommended for *Mackenzie Bursaries*:—John Campbell; Robert Carmichael; W. A. Simpson; James Thomson.

E. B. JAMIESON, M.D., *Lecturer*.

ARTHUR ROBINSON, M.D., *Professor*.

Summer 1919.

REGIONAL ANATOMY.

SECTION I.

First-Class Certificates.

- | | |
|---|---|
| 1 Jessie Eeles, Leith.
2 Annie E. Webster, Galashiels.
3 K. B. Williamson, N. Shields.
4 Jean M. Connochie, Selkirk.
5 James Williams, Dumfries.
6 { B. M. Dick, Kendal.
Dorothy Potter, England. | 8 { Andrew Macfarlane, Leadhills.
R. A. C. M'Intosh, Invergordon.
Margt. I. Bower, Prestonpans.
K. F. Caird, Edinburgh.
10 { J. C. B. Craig, Lockerbie.
J. S. Harris, Lincolnshire.
Ronald Munro, Blackburn.
Alister Sutherland, Ross-shire. |
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Second-Class Certificates.

- | | |
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| 16 { G. G. Cochrane, Bo'ness.
A. G. Smith, Aberdeenshire.
28 { E. S. Gordon, Glasgow.
Christian M. B. Welsh, West
Calder.
Jeanie Wilson, India.
21 { J. F. Cunningham, Edinburgh.
S. L. Lucas, Edinburgh.
A. J. Kilgour, Fifeshire.
23 { J. D. Robertson, Edinburgh.
G. D. Steven, Ayrshire. | 26 { Janet M. Henderson, Ayr.
G. S. Scott, Enfield.
28 { G. W. Ireland, S. Africa.
Margaret Alice, Alloa.
29 { D. G. Coutts, Kirkcaldy.
Thomas Ferguson, Falkirk.
Eva Stewart, Edinburgh.
Grace M. Dover, India.
33 { Kenneth Lumsden, Leeds.
J. C. Moir, Montrose.
Florence Telfer, Tarbet. |
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|----|--------------------------------|----|--------------------------------|
| 37 | A. H. Mowat, Lybster. | | |
| | Frank Booth, Halifax. | 55 | Helen Blacklay, Londonderry. |
| 38 | E. G. Hunter, Sunderland. | | Catherine G. Ketchin, Path- |
| | Herbert M'Nair, Preston. | | head, Ford. |
| | J. T. Bell Nicoll, Scotland. | 57 | Irene V. E. Christison, Edin- |
| 42 | R. C. Little, Borneo. | | burgh. |
| | Isabella Taylor, Perth. | 59 | H. G. Triay, Gibraltar. |
| 44 | Hilda R. Hay, Stranraer. | | Annie C. S. Haddow, Lanark- |
| | Elizabeth Garrigan, Edinburgh. | | shire. |
| 45 | Doreen Stranger, Cheltenham. | 60 | Gladys H. Dodds, Kirkcaldy. |
| | J. W. Anderson, Edinburgh. | | Jessie W. Strang, Lanarkshire. |
| 47 | K. D. Mackintosh, India. | | C. B. Thomson, Dublin. |
| | I. D. Stronach, Edinburgh. | | Hazel Watt, Calcutta. |
| | I. R. Cameron, Australia. | 64 | Kathleen S. Campbell, London. |
| | Helen L. Fisher, Dunfermline. | | Betty Macdonald, Lancashire. |
| 50 | Jessie E. Munro, Scotland. | | Elizabeth S. Blair, Kirkcaldy. |
| | D. M. Scrimgeour, Dundee. | 66 | R. T. Deas, Edinburgh. |
| | P. W. Tait, Leith. | | Flora M. Hogg, Selkirk. |
| | | | Harold Jamieson, Nairn. |
| | | | R. P. Liston, Ireland. |

SECTION II.

First-Class Certificates.

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|---|---------------------------|---|------------------------|
| 1 | W. M. Wilson, Edinburgh. | 3 | A. M. Marr, Edinburgh. |
| 2 | I. A. M. Paton, Scotland. | | |

Second-Class Certificates.

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|---|------------------------------|---|--------------------------|
| 4 | C. M. Rautenbach, S. Africa. | 6 | Thomas Skene, Edinburgh. |
| 5 | D. G. Anderson, Carlisle. | | |

PRACTICAL ANATOMY.

A—IN UNIVERSITY BUILDINGS.

I. First and Second Year Students.

First-Class Certificates.

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|----|-------------------------------|----|--------------------------------|
| 1 | W. M. Wilson, Edinburgh. | 16 | H. H. Condie, Fife. |
| 2 | H. P. Anderson, Scotland. | | James Glover, Shetland. |
| 3 | A. C. White, Edinburgh. | | David Band, Edinburgh. |
| | R. J. Rosie, Orkney. | 18 | A. W. Gardiner, Dumfriesshire. |
| 4 | C. J. Swanson, Blairgowrie. | | E. W. Jobson, New Zealand. |
| | E. P. Boyle, Dumfries. | | H. J. R. Kirkpatrick, Taunton. |
| 6 | J. L. N. Dinwiddie, Ruthwell. | 21 | Robert Selby, Wigtownshire. |
| | H. D. Hayes, Peebles. | | David Slight, Falkirk. |
| | I. A. M. Paton, Scotland. | | W. J. Burns, Isle of Whithorn. |
| | R. S. Begbie, Edinburgh. | | C. F. W. Ilkington, Halifax. |
| | G. P. Farmer Bowers, India. | 24 | R. J. Reid, Buckie. |
| 10 | J. M. Henderson, Ayr. | | G. S. Scott, Enfield. |
| | T. M. Millar, Scotland. | | W. R. Fairbairn, Edinburgh. |
| | J. M. Smellie, Lanarkshire. | 28 | Thomas Ritchie, Scotland. |
| | John Sturrock, Edzell. | | G. S. Strachan, Edinburgh. |
| | | | N. B. Williamson, S. Shields. |

- H. S. Everett, Canada.
 F. W. Gavin, Edinburgh.
 A. B. Guild, Trarant.
 32 A. M. Kerr, Fifeshire.
 A. R. McClure, Castle
 Douglas.
 W. M. Ross, Edinburgh.
 Angus Campbell, Killin.
 D. S. Cherry, E. Calder.
 William Love, Stranraer.
 38 Donald Macdonald, Storno-
 way.
 F. B. Thomson, Hong Kong.
 G. H. Thomson, Newcastle.
 L. C. L. Averill, New Zealand.
 Charles Bateman, Westmore-
 land.
 A. L. Clark, Broughty Ferry.
 H. K. Corkill, New Zealand.
 44 R. T. Deas, Edinburgh.
 K. S. Dick, Ayrshire.
 David Grieve, Carlisle.
 Sam T. Milliken, America.
 John Todd, Falkirk.
 J. N. Young, Ayr.

- D. G. Anderson, Carlisle.
 William Anderson, Jedburgh.
 E. R. Boyd, Edinburgh.
 T. D. Burt, Edinburgh.
 54 A. J. M. Butter, Perth.
 Robert Carmichael, Falkirk.
 L. E. Henderson, Edinburgh.
 A. M. Marr, Edinburgh.
 W. J. Butterworth, Rochdale.
 G. M. Hargreaves, West
 62 Indies.
 C. M. Rautenbach, S. Africa.
 D. G. A. Stewart, Edinburgh.
 Thomas Tully, Edinburgh.
 Joseph Braithwaite, Linlith-
 gow.
 E. K. R. Firth, Burma.
 George Horne, Edinburgh.
 67 J. H. McLean, New Zealand.
 G. M. Ross, Portmahomack.
 A. A. M. Sandison, Orkney.
 K. J. Thomson, S. Africa.
 John Gray, America.
 I. H. McClure, Castle Douglas.
 R. M. Macfarlane, Edinburgh.
 G. H. Percival, Kirkcaldy.
 R. W. R. Watson, Clitheroe.
 74 George Wilson (Edin.), Edin-
 burgh.
 E. D. M. Wright, Palestine.
 J. B. Young, Ayrshire.

Second-Class Certificates.

- E. C. Ellis, Edinburgh.
 A. M. M. Grierson, Edin-
 burgh.
 82 I. M. D. Grieve, Abergfeldy.
 J. A. Hart, Edinburgh.
 R. P. A. Rigg, Preston.
 L. M. Thompson, Nairn.
 A. W. Wilson, London.
 89 William Boyd, Galashiels.
 C. W. Durward, Leven.
 J. D. S. Cameron, Montrose.
 Alex. de Gaye, Mauritius.
 Andrew McDowall, Bradford.
 Solomon Petkoon, South
 91 Africa.
 H. V. Thwaites, Australia.
 G. M. Westwood, Wemyss.
 W. S. Woodburn, Glasgow.

- W. N. Brown, Edinburgh.
 Dugald Cameron, Argyle.
 James Crooks, Northampton.
 G. W. Monro, Stranraer.
 98 I. H. Maciver, Lochcarron.
 J. V. Neilson, Edinburgh.
 W. C. S. B. Sewrey, South
 Africa.
 H. R. Vernon, Forfarshire.
 D. H. D. Young, Tillicoultry.
 J. G. Cormack, Edinburgh.
 J. M. Cowan, New Gallo-
 way.
 107 H. H. Dunlop, Edinburgh.
 R. W. Eason, South Africa.
 E. G. R. Grant, Madras.
 P. A. M'Credie, Stranraer.
 T. R. Sutherland, Edinburgh.

- L. G. Blair, England.
 J. S. Faulds, Glasgow.
 R. V. Liddell, Shanghai.
 J. B. Mackie, Staffordshire.
 Archibald Penman, Cowden-
 beath.
 P. V. Pritchard, S. Africa.
 Alfred Rosenbloom, Edin.
 T. A. Sellar, Banffshire.
 W. N. Boog-Watson, Edin.
 E. J. Crawford, Ireland.
 Nigil Duguid, Bo'ness.
 W. M. Forster, Musselburgh.
 John Knox, Blackpool.
 A. J. Lübke, South-Africa.
 W. S. McEwan, Prestonpans.
 D. A. Urquhart, Sutherland.
 V. G. H. Wallace, Kirkcaldy.
 F. G. Creaser, Dublin.
 A. K. James, Edinburgh.
 C. D. Kennedy, Stornoway.
 A. S. Nicol, Cummertrees.
 A. L. K. Rankin, Tighna-
 bruich.
 R. C. Spiers, Edinburgh.
 Walter Wyatt, Portobello.
 D. M. Bertram, Edinburgh.
 C. J. Crottier, America.
 W. R. Duff, Leith.
 G. A. Dunlop, Lancashire.
 W. M. Hetherington, Edin.
 E. Bruce Low, Edinburgh.
 A. R. MacCallum, England.
 R. W. Graham Yooll, Edin.
 Alex. Beveridge, Perthshire.
 Thomson Bonar, Rome.
 Harold Carter, Cheshire.
 L. I. Johnston, Edinburgh.
 L. C. Palmer Jones, Wales.
 J. H. MacAlpine, Nyasaland.
 J. C. MacGown, Millport.
 R. E. B. Rees, South Wales.
 George Somerville, Edin-
 burgh.
 M. S. Abaza, Egypt.
 M. J. Bett, Strathtay.
 J. M. Campbell, N. Berwick.
 John Hamilton, Lismahagow.
 G. G. Herd, Kirkcaldy.
 Alex. Leishman, Scotland.
 Henry Miller, Chorley.
 F. N. R. Price, Edinburgh.
 E. P. Waters, Darlington.
 I. G. Williams, Wales.
- R. D. Bradshaw, Edinburgh.
 F. L. Buttar, Musselburgh.
 Ivor Campbell, Cban.
 Charles Dorkin, Sunderland.
 A. J. Moore, Dornoch.
 R. T. Sharp, Edinburgh.
 D. B. Strachan, Scotland.
 F. M. Walker, Edinburgh.
 D. T. Anderson, Bathgate.
 P. J. Badenhorst (W'son),
 South Africa.
 W. H. Carter, Sunderland.
 J. W. Cromarty, Orkney.
 W. A. Erskine, Edin-
 burgh.
 W. R. Main, Perth.
 J. G. B. F. Morris, Rox-
 borough.
 J. S. MacGill, Amsterdam.
 H. K. Watson, Ayrshire.
 Wm. C. Galt, Darlington.
 R. T. F. Grace, New
 Zealand.
 Reuben Levinson, Edin.
 W. A. Simpson, Grangemouth.
 J. K. Slater, Edinburgh.
 J. S. Banks, Edinburgh.
 D. S. Fairweather, Lancashire.
 Harry Hastings, Edinburgh.
 K. A. T. Martin, Hong Kong.
 George Robson, Edinburgh.
 E. D. M. Wallace, Edinburgh.
 J. J. Coulthard, Whitehaven.
 Ralph Morton, Dumfries.
 N. H. A. Mackinnon, Leith.
 William Parker, Fifeshire.
 M. A. Graham Yooll, Edin-
 burgh.
 John Lambert, Auchter-
 muchty.
 G. A. Masson, Scotland.
 I. J. Macdonald, Carlisle.
 B. G. Thompson, N. Zealand.
 J. A. Walsh, Newfoundland.
 W. F. Hamilton, India.
 R. D. Miller, Ayr.
 W. H. B. Ramsay, Alloa.
 E. G. Anderson, Edinburgh.
 J. N. Banks, Fifeshire.
 A. D. Gould, Edinburgh.
 Harold Jamieson, Nairn.
 W. D. Paterson, Leith.

II. Freshmen.

First-Class Certificates.

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|----|---------------------------------|----|-------------------------------|
| 1 | { J. M. Alston, London. | 19 | { K. R. Brown, Preston. |
| | { K. H. Gillison, China. | 20 | { D. S. Malone, Edinburgh. |
| 3 | { J. D. Mills, Jamaica. | | { William Morrison, Stirling. |
| 4 | { J. N. Adam, Kidderminster. | | { Douglas Bell, Lockerbie. |
| | { G. M. Gibson, Leith. | 22 | { T. R. Bowden, Cheshire. |
| 5 | { William Jones, Chester. | | { L. G. Drury, Melbourne. |
| | { J. R. K. Paterson, Edinburgh. | | { J. A. Macdonald, Inverness- |
| 8 | { R. C. Scott, Currie. | 25 | { shire. |
| | { A. D. Fairbairn, Fife. | | { S. R. Macmillan, Uphall. |
| 9 | { John Gillies, Edinburgh. | | { S. L. Hislop, Scotland. |
| | { J. A. Shaw, Pumphreston. | 27 | { Andrew Leitch, Dunfermline. |
| 11 | { R. P. Wilson, New Zealand. | | { Andrew Simpson, Kirkcaldy. |
| | { I. R. Anderson, Edinburgh. | | { W. D. Bertram, Edinburgh. |
| | { John Cottrell, Staffordshire. | | { H. R. M. Richards, Wales. |
| | { C. V. Hendry, Edinburgh. | 30 | { J. J. Robb, Aberdeenshire. |
| 13 | { J. W. Hunter, Lochgelly. | | { James Sinclair, Edinburgh. |
| | { G. W. Simpson, Edinburgh. | | |
| | { John Trotter, Edinburgh. | | |

Second-Class Certificates.

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|----|---------------------------------|----|---------------------------------|
| | { W. G. Dobson, Bathgate. | | { W. C. S. Angus, Scotland. |
| | { John Durran, Kirriemuir. | | { J. A. Cuthbert, Alloa. |
| 34 | { J. L. Horne, Falkirk. | 60 | { G. B. Murray, Edinburgh. |
| | { D. B. Low, Perth. | | { Mellis M'Culloch, Larbert. |
| | { A. M. Ross, Argyll. | | { W. F. Scott, Glasgow. |
| | { D. L. Ferguson, South Africa. | | { Frank Towers, Cheshire. |
| | { F. R. Mitchell, Musselburgh. | | { Vernon Bell, Lancashire. |
| 39 | { Hugh Munro, Edinburgh. | | { W. L. Anderson, Falkirk. |
| | { L. P. Myerson, Leeds. | | { A. H. Campbell, India. |
| | { L. G. Campbell, Balloch. | 66 | { J. L. Harley, Dunfermline. |
| 43 | { Arthur Smith, Broxburn. | | { J. H. Penman, Tillicou- |
| | { L. J. Stone, Londonderry. | | { try. |
| | { Ian Duguid, Bo'ness. | | { H. B. Porteous, Durham. |
| 46 | { F. M. Rose, Canada. | | { Geoffrey Priestman, Hull. |
| | { Alex. Scott, Islay. | | { A. F. Campbell, Glenorchy. |
| | { Frank Allardice, Forfar. | | { R. M. Condie, Fife. |
| | { J. A. Harris, Spain. | | { R. C. Forrester, Kirkcaldy. |
| 49 | { W. G. Millar, Reading. | | { J. F. Fraser, Leith. |
| | { T. A. Stanfield, England. | 73 | { J. S. Henry, Canada. |
| | { Jack Symon, Dundee. | | { J. A. Robertson, Ross-shire. |
| | { R. G. Anderson, Glasgow. | | { A. C. Ross, Stockton-on-Tees. |
| | { R. K. Dewar, Calcutta. | | { R. M. Thomson, Grange- |
| | { William Foote, Lochgelly. | | { mouth. |
| 54 | { R. J. Matthews, Monmouth. | | { B. N. V. Bailey, England. |
| | { D. I. Macaulay, South Africa. | 81 | { W. J. Liddle, Edinburgh. |
| | { A. J. Stout, Whitehaven. | | { John Milne, Dunfermline. |

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| | C. J. Austin, Exeter. | | R. F. Campbell, Manchester. |
| | J. I. Campbell, Perth. | | Benjamin James, Carmarthen. |
| | G. A. Davies, Australia. | 103 | W. S. Urquhart, Kyle of |
| | R. H. Dunlop, Scotland. | | Lochalsh. |
| | G. G. King, Limerick. | | J. H. Watson, Galashiels. |
| | G. A. Macadie, Wick. | | Donald Brims, Edinburgh. |
| 84 | B. M. MacFarlane, Juniper | | I. M. Cameron, Inverness. |
| | Green, | 107 | James Crawford, Scotland. |
| | I. M. Robertson, Edinburgh. | | David Gold, South Africa. |
| | Richard Ross, South Africa. | | R. J. Rodger, Ayrshire. |
| | Ian Sanderson, Grange- | | R. H. Hermon, England. |
| | mouth. | 112 | Robert M'Figgans, Falkirk. |
| | N. D. Sanderson, Grange- | | E. A. M'Kinney, Edinburgh. |
| | mouth. | | J. R. Somerville, Scotland. |
| | J. F. Menzies, Parish of Weem. | | G. H. P. Alexander, Edin. |
| 95 | William Ramsay, Dunfer- | 116 | David Arnott, Fife. |
| | line. | | J. T. Clark, Scotland. |
| | R. E. W. Sandison, Edin. | | J. L. Connacher, S. Africa. |
| | J. L. Clark, Whitehaven. | 119 | R. A. Edmondson, Liver- |
| | W. D. Couper, Edinburgh. | | pool. |
| 98 | D. J. Griffiths, Wales. | | J. P. Thomson, Ancrum. |
| | O. O. Popper, South Africa. | | J. C. S. Edwards, Kent. |
| | J. S. Riddle, Hawick. | 122 | Arnold Foxcroft, Lancashire. |
| | | | J. M. D. Lawrie, Stirlingshire. |
| | | | D. G. Paterson. |

B—IN BRISTO STREET DEPARTMENT.

First-Class Certificates.

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|----|--------------------------------|----|--------------------------------|
| 1 | Margaret G. Maxwell, Edin- | | Doreen Stranger, Cheltenham. |
| | burgh. | 22 | Vera Thompson, West Hartle- |
| 2 | Margaret L. Muir, Scotland. | | pool. |
| 3 | Ruth A. Millar, Edinburgh. | | Dorothy A. Christie, China. |
| 4 | Constance Thom, Edinburgh. | | Elizabeth K. Clark, Hawick. |
| | Jean Lorrain Smith, Belfast. | 24 | Margaret R. Clark, India. |
| 5 | Rose A. Thomsen, Leith. | | Hilda Page, England. |
| | Annie A. Turnbull, Jedburgh. | | Christina B. Ross, Wick. |
| | Harriette G. Bogle, Scotland. | 29 | Phyllis E. List, Carlisle. |
| | Helen B. Ewart, Dalbeattie. | | Margaret M. Cairns, Alloa. |
| 8 | Nora Lister, Fife. | | Margaret G. Currie, Leith. |
| | Frances A. Redhead, Edinburgh. | | Caroline A. Elliot, Tynemouth. |
| | Davie A. D. Bannerman, | | Margaret H. Gordon, Wales. |
| | Madras. | 30 | E. Irvine Jones, Edinburgh. |
| | Elizabeth Baxendine, Scotland. | | Ellen A. Morrison, Bannock- |
| 12 | Flora H. Calder, Edinburgh. | | burn. |
| | Winifred Small, Edinburgh. | | Isa A. Oliphant, Fife. |
| | Elsie Thomson, Hong Kong. | | Susanna J. Paterson, Scotland. |
| | Winifred Wood, Edinburgh. | 38 | Mary A. Allan, Stockport. |
| | Annie G. Learmouth, Falkirk. | | Margaret G. Falla, Selkirk. |
| 18 | Agnes F. Turner, Keith. | 39 | Jessie W. Ward, Peterborough. |
| | Mary Wilson, Linlithgow. | | |
| | Alison M. Wood, Scotland. | | |

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|----|-------------------------------------|--|
| 41 | Evelyn E. Baird, Cambuslang. | Edith M. Bates, Langholm. |
| | Helen W. Mackenzie, India. | Isabel M. Doig, Selkirk. |
| | Helen S. Maclaren, Kirkcaldy. | Elizabeth B. Lorne, Falkirk. |
| | Winifred Ormerod, Bradford. | 66 Margaret M. Meikle, Ayrshire. |
| | Gladys H. Burnet, Aberdeen-shire. | Ann F. G. Smith, Scotland. |
| 45 | Catherine J. Maclaren, York-shire. | Anne B. Steven. |
| | Jessie C. Sym, Edinburgh. | Dorothy P. Herdman, Edin-burgh. |
| 48 | Jean S. Bow, Airth. | 72 Ena M. Laing, Scotland. |
| | Elsie Sumner, Liverpool. | J. C. Spencer Scovell, Twicken-ham. |
| | Esther D. P. Beauchamp, China. | Eva J. Cairns, Stirling. |
| | Elsie Crowe, Middlesborough. | Jeannie W. Rees, Edinburgh. |
| | Phyllis M. Lunn, London. | 75 Helen E. Slater, England. |
| 50 | Janet C. Mackay, Fort William. | Alice Steven, Yorkshire. |
| | R. Antoinette Scott, Laurence-kirk. | Margaret Craig, Kirkcudbright. |
| | Marjorie Brotherstone, Edin-burgh. | 79 Margaret C. B. White, Grange-mouth. |
| 55 | Hilda M. Davis, London. | 81 Anna Cabas, Edinburgh. |
| | Isabella Kerr, Dumfries. | Rhoda V. Robb, Stirling. |
| | Lilias A. Jenkins, Leith. | Janet C. King, Edinburgh. |
| 58 | Irma C. Mackenzie, Golspie. | 83 Marion A. Medley, Batley. |
| | Janet C. McGeorge, Dumfries. | Anita H. M. Ross, Edinburgh. |
| 60 | Violet Oswald, Kinross. | Margaret A. Simpson, Surrey. |
| | Edith S. Watson, Portobello. | Lilian R. Duffy, Shanghai. |
| | Elizabeth M. Lindsay, Golspie. | 87 Doris M. Hopps, Fife. |
| 63 | Christina Morrison, Corstorphine. | Helen Coventry, Leith. |
| | Roberta L. Young, Orkney. | 89 Jane A. Horne, Larbert. |
| | | Eva G. John, Boston. |
| | | Jessie R. Brash, Dumfries. |
| | | 92 Lilian A. N. Russell, Joppa. |
| | | 94 Marjorie Steven, Yorkshire. |

E. B. JAMIESON, M.D., *Lecturer.*ARTHUR ROBINSON, M.D., *Professor.***PHYSIOLOGY.***First-Class Certificates.*

- | | | | |
|---|---------------------------------------|---|-------------------------------------|
| 1 | Jean M. T. Connochie, Selkirk. | 5 | Christian M. B. Welsh, West Calder. |
| 2 | Jessie Eeles, Leith. | | |
| 3 | E. D. Dingle, Seaham Harbour, Durham. | 6 | Margaret L. Muir, Ayr. |
| 4 | Andrew McFarlane, Leadhills. | | W. M. Robb, Blairgowrie. |

Second-Class Certificates (arranged alphabetically).

- | | |
|--|-----------------------------------|
| S. M. Alexander, Kelso. | Ernest Bulmer, Newcastle-on-Tyne. |
| John Murray Black, Edinburgh. | J. H. Clarke, Scotland. |
| Jean T. W. Bucknell, Kogarah, New South Wales. | James F. Cunningham, Edinburgh. |
| | Bruce M. Dick, Westmoreland. |

- Alexander Dower, Wick, Caithness.
 Thomas Ferguson, Falkirk.
 C. H. Fouché, Graaff Reinet, South Africa.
 J. A. Fraser, Fife.
 Owen S. Gibbs, Sileby, W. Loughborough.
 Edward S. Gordon, Glasgow.
 Janet M. Henderson, Ayr.
 Ellis G. Hunter, Sunderland.
 C. I. Irvine-Jones, Edinburgh.
 Eric M. Jenkins, Sheffield.
 John D. Johnston, Co. Derry.
 Catherine G. Ketchin, Pathhead Ford.
 Alan J. Kilgour, Strathmiglo, Fife.
 William R. Levie, W. Hartlepool.
 Simon Levie Lucas, Edinburgh.
 James I. M'Caa, Girvan.
 D. T. M'Donald, Belford.
 Donald Macdonald, Stornoway, Lewis.
 John R. M'Donald, Belford.
 K. D. Mackintosh, Assam, India.
 A. Murray Marr, Edinburgh.
- James D. Mill, M.A., Anstruther.
 J. Chassar Moir, Montrose.
 Ronald Munro, Blackburn, England.
 George Ogilvie, Edinburgh.
 A. M. Wilson Rae, Arbroath.
 F. W. Rawlings, Withington, Manchester.
 William B. Reid, Australia.
 Arthur G. Smith, Kennethmont, Aberdeenshire.
 Marjory V. B. Smith, Edinburgh.
 George D. Steven, Ayrshire.
 Eva Stewart, Edinburgh.
 Jessie W. Strang, Lanarkshire.
 Isabella Taylor, Oban.
 Charlotte E. W. Thompson, Edin.
 C. M. Thompson, W. Hartlepool.
 P. K. Walker, Dunfermline.
 Annie E. Webster, Galashiels.
 K. B. Williamson, South Shields.
 Margaret S. Williamson, Kinross.
 Arthur J. Wilson, Whitehaven, Cumberland.
 D. C. Wilson, Anstruther.
 Jeanie Wilson, Ireland.

EXPERIMENTAL PHYSIOLOGY.

First-Class Certificates (arranged alphabetically).

Men.

- R. Abramsky, Moscow.
 G. T. Alexander, Edinburgh.
 C. W. Burns, Portobello.
 J. C. Caird, Edinburgh.
 E. E. Candlish, Bolton, Lancashire.
 E. A. Carmichael, Edinburgh.
 J. H. Clarke, Scotland.
 N. S. Craig, Berwick-on-Tweed.
 Douglas R. Cramb, Edinburgh.
 G. G. Cochrane, Bo'ness.
 J. F. Cunningham, Edinburgh.
 E. D. Dingle, Seaham Harbour, Durham.
 Alexander Dower, Wick, Caithness.
 A. M. Duff, Scotland.
 E. M. R. Frazer, Edinburgh.
 John S. Fulton, Scotland.
 Owen S. Gibbs, Sileby, W. Loughborough.
 J. B. Gyle, London.
 I. Simson Hall, Glasgow.
- N. R. Holmes, England.
 J. S. Hovell, Edinburgh.
 R. G. Inkster, Edinburgh.
 William R. Levie, W. Hartlepool.
 R. C. Little, North Borneo.
 James I. M'Caa, Girvan.
 P. T. M'Diarmid, Perthshire.
 D. T. M'Donald, Belford.
 J. R. M'Donald, Belford.
 W. S. M'Donald, Invergordon.
 D. P. MacIver, Bowmore.
 G. S. Mackay, Scotland.
 K. D. Mackintosh, Assam, India.
 K. A. Macrae, Bonar Bridge.
 W. F. Mair, Edinburgh.
 A. Murray Marr, Edinburgh.
 Joseph Martin, Whithorn.
 James D. Mill, M.A., Anstruther.
 T. M'W. Millar, Scotland.
 J. Chassar Moir, Montrose.
 Kate Y. Pearson, Gillingham, Kent.

W. J. R. Pickles, Wakefield.
 F. J. Rawlings, Withington, Manchester. •
 William B. Reid, Australia.
 D. Muir Scrimgeour, Dundee.
 T. R. C. Spence, Edinburgh.
 George D. Steven, Ayrshire.
 Ian D. Stronach, Edinburgh.

P. W. Tait, Leith.
 C. B. Thomson, Dublin.
 J. Williams, Dumfries.
 K. B. Williamson, S. Shields.
 A. J. Wilson, Whitehaven, Cumberland.
 A. D. M. Young, Arbroath.

Women.

Davie A. D. Bannerman, Madras.
 Elizabeth S. Blair, Pathhead, Kirkcaldy.
 Margaret I. Bower, Prestonpans.
 Irene V. E. Christison, Edinburgh.
 Grace Dover, India.
 Jessie Eeles, Leith.
 Annie Haddow, Lanarkshire.
 Jeannie Kean, Lerwick.
 Margaret W. Kemp, Selkirk.

Catherine G. Ketchin, Pathhead Ford.
 Elsie Porter, Manchester.
 Eva Stewart, Edinburgh.
 Charlotte E. W. Thompson, Edin.
 Muriel J. Thomson, Riga.
 Kathleen M. Turner, Hawick.
 Annie E. Webster, Galashiels.
 Christian M. B. Welsh, West Calder.
 Jeanie Wilson, Ireland.

Second-Class Certificates (arranged alphabetically).

John C. Adam, Forres.
 Stanley C. Alcock, Derby.
 Margaret Alice, Alloa.
 James W. Anderson, Edinburgh.
 Margaret S. R. Armstrong, Winchburgh.
 J. B. S. Baxter, Sierra Leone.
 F. D. M. Beaton, Glasgow.
 George M. Bell, Galashiels.
 Margery E. Bennet, Bristol.
 John Murray Black, Edinburgh.
 John M. Blair, Girvan.
 Robert A. F. Blair, Edinburgh.
 Roger P. Bliss, Forres.
 John M. Bonar, Glasgow.
 Margaret G. Bowie, Perth.
 T. Brewis, Edinburgh.
 George Brewster, Airth, Stirlingshire.
 D. L. Brown, Blackridge.
 James Brown, Fraserburgh.
 Charles Brownlee, South Africa.
 Jean T. W. Bucknell, Kogarah, N.S.W.
 Ernest Bulmer, Newcastle-on-Tyne.
 Jane G. H. Burnet, Aberdeenshire.
 William S. Burr, Kilsyth.
 Ian R. Cameron, Broome, Australia.

John Cameron, Edinburgh.
 Grace Campbell, Co. Durham.
 John Campbell, Killin.
 Kathleen S. Campbell, London.
 Mary C. Campbell, Edinburgh.
 Mary J. Cheng, China.
 Elizabeth B. Clark, Scotland.
 F. W. P. Cluver, Robertson, South Africa.
 Jean M. T. Connochie, Selkirk.
 J. C. B. Craig, Johnstone Bridge.
 J. C. Cruickshank, Edinburgh.
 John Davidson, Cheshire.
 Bruce M. Dick, Westmoreland.
 Gladys H. Dodds, Kirkcaldy.
 Herbert A. Eadie, Leith.
 Kevin Ebsworth, Victoria, Australia.
 Anna L. Edward, Wigtown.
 Thomas Ferguson, Falkirk.
 Helen L. M. Fisher, Dunfermline.
 Gordon B. Flint, Australia.
 C. H. Fouché, Graaff Reinet, South Africa.
 J. A. Fraser, Fife.
 Elizabeth M. R. Garrigan, Edinburgh.
 Hilda R. Gibbs, Mountsorrel, Leicestershire.

- A. Rae Gilchrist, Scotland.
 Edward S. Gordon, Glasgow.
 H. R. Haigh, South Africa.
 B. T. Halliwell, Winchcombe, Glos.
 Helen Jack Hamilton, Forfar.
 J. S. Harris, Lincolnshire.
 James Archibald Hart, Scotland.
 Janet M. Henderson, Ayr.
 Anna Mary Herdman, Ann Arbor, Mich.
 Enid M. Hern, Darlington.
 Flora M'D. Hogg, Selkirk.
 A. M. M. Hunter, Invergowrie, Perthshire.
 Ellis G. Hunter, Sunderland.
 G. W. Ireland, Pietermaritzburg.
 Charles I. Irvine-Jones, Edinburgh.
 Harold Jamieson, Scotland.
 Eric M. Jenkins, Sheffield.
 John D. Johnston, Co. Derry.
 R. D. Jones, Machynlleth.
 Elizabeth R. Kemp, Dumfries.
 A. J. Kilgour, Strathmiglo, Fife.
 Arthur King, Rhymney, Mon.
 Isabel Falconer King, Edinburgh.
 Joseph Kingsley, Hull.
 S. Lipetz, Edinburgh.
 R. Prosper Liston, Ireland.
 W. M. Lloyd, Wales.
 S. L. Lucas, Edinburgh.
 Kenneth Lumsden, Leeds.
 K. M. M'Cracken, Newcastle-on-Tyne.
 Betty Macdonald, Lancashire.
 Donald Macdonald, Lewis.
 Andrew M'Farlane, Leadhills.
 Annabella M'Garrity, Leadhills.
 R. A. C. M'Intosh, Invergordon.
 G. W. J. Mackay, Barra.
 H. D. M'Kinn, Huddersfield.
 Marjorie C. Mackintosh, Hopeman, Scotland.
 Herbert M'Nair, England.
 J. E. M'William, Co. Roscommon.
 Grace J. Marshall, Mauchline.
 Ian C. Middleton, Hamilton.
 Allan H. Mowat, Lybster.
 Margaret L. Muir, Ayr.
 J. E. M. Munro, Scotland.
 Ronald Munro, Blackburn, England.
 S. S. Murdoch, Manby, N.S.W.
 Dorothea M. Norwell, Perth.
 George Ogilvie, Edinburgh.
 Isa M. Oliphant, Cupar, Fife.
 Hilda Page, London.
 Beatrice H. Paton, Banchory.
 Carrick G. Payton, Dalkeith.
 Dorothy Potter, England.
 H. Radford Potter, Matlock.
 P. V. Pritchard, South Africa.
 Jean R. Purves, Scotland.
 Wm. M. Robb, Kiltearn, Ross-shire.
 G. W. Roberts, Burma.
 J. D. Robertson, Edinburgh.
 W. M. Ross, Edinburgh.
 Isobel S. Rutherford, Edinburgh.
 Roy M. Saunders, London.
 Annie B. A. Scott, Ruthwell, Dumfriesshire.
 R. Antoinette M. Scott, Laurencekirk.
 T. A. Sellar, Aberlour-on-Spey.
 O. L. Shearer, Natal.
 Archibald J. Shedden, Scotland.
 Arthur G. Smith, Aberdeenshire.
 Cicely M. Steven, Edinburgh.
 Flora M. Stewart, Edinburgh.
 Handley G. Stockley, Colombo.
 Jessie W. Strang, Lanarkshire.
 Doreen Stranger, Cheltenham.
 Alexander Stuart, Scotland.
 Alister Sutherland, Strathconan, Ross-shire.
 R. M. A. Tait, Scotland.
 Isabella Taylor, Oban.
 Florence L. Teifer, Tarbet, Loch Lomond.
 C. M. Thompson, West Hartlepool.
 Elizabeth N. Thompson, Blyth.
 James Thomson, Kirkliston.
 Annie R. Turnbull, St Andrews.
 Elsie M. Walker, Dunfermline.
 George B. Walker, Broughty Ferry.
 John Walker, Uphall.
 Peter K. Walker, Dunfermline.
 T. J. M. Walker, South Africa.
 H. L. Wallace, Birkenhead.
 D. C. Wilson, Anstruther.
 John T. Wilson, Lockerbie.
 G. K. Wood, Derbyshire.
 J. H. Wright, Birmingham.

CHEMICAL PHYSIOLOGY.

First-Class Certificates (arranged alphabetically).

Stanley C. Alcock, Derby.
 George J. Alexander, Edinburgh.
 John M. Bonar, Glasgow.
 Jean T. W. Bucknell, Kogarah,
 N.S.W.
 Jane G. H. Burnet, Aberdeenshire.
 W. S. Burr, Kilsyth.
 T. W. M. Cameron, Glasgow.
 Esther J. Campbell, Kirkcudbright.
 Grace Campbell, Co. Durham.
 Irene V. E. Christison, Edinburgh.
 J. F. Cunningham, Edinburgh.
 E. D. Dingle, Seaham Harbour,
 Durham.
 Jessie Eeles, Leith.
 C. H. Fouché, Graaff Reinet, South
 Africa.
 J. A. Fraser, Fife.
 A. Rae Gilchrist, Scotland.
 Annie C. S. Haddow, Lanarkshire.
 Helen Jack Hamilton, Forfar,
 Scotland.
 Janet M. Henderson, Ayr.
 N. R. H. Holmes, England.
 James S. Hovell, Edinburgh.
 John D. Johnston, Co. Derry.

Margaret W. Kemp, Selkirk.
 Wm. R. Levie, West Hartlepool.
 Betty Macdonald, Lancashire.
 Donald Macdonald, Lewis.
 R. A. C. M'Intosh, Invergordon.
 H. D. M'Kinna, Huddersfield.
 K. D. Mackintosh, Assam, India.
 H. M'Nair, England.
 K. A. Macrae, Bonar Bridge.
 W. F. Mair, Edinburgh.
 A. Murray Marr, Edinburgh.
 James D. Mill, M.A., Scotland.
 S. S. Murdoch, Manby, N.S.W.
 Hilda Page, London.
 Beatrice H. Paton, Banchoy.
 Kate Y. Pearson, Gillingham, Kent.
 H. Radford Potter, Matlock.
 W. M. Robb, Blairgowrie.
 R. Antoinette M. Scott, Laurence-
 kirk.
 T. R. C. Spence, Edinburgh.
 Peter W. Tait, Leith.
 Isabella Taylor, Otan.
 Elizabeth N. Thompson, Blyth.
 Annie E. Webster, Galashiels.
 A. J. Wilson, Whitehaven.

Second-Class Certificates.

R. Abramsky, Moscow.
 John C. Adam, Forres.
 S. M. Alexander, Kelso.
 Margaret Alice, Alloa.
 Davie A. D. Bannerman, Madras.
 J. B. S. Baxter, Sierra Leone.
 George Black, Cape Province.
 John Murray Black, Edinburgh.
 Elizabeth S. Blair, Pathhead,
 Kirkcaldy.
 J. M. Blair, Girvan.
 R. A. F. Blair, Edinburgh.
 Roger P. Bliss, Forres.
 Margaret I. Bower, Prestonpans.
 T. Brewis, Edinburgh.
 Charles Brownlee, South Africa.
 Ernest Bulmer, Newcastle-on-Tyne.
 C. W. Burns, Edinburgh.
 J. C. Caird, Edinburgh.

John Cameron, Edinburgh.
 John Campbell, Killin.
 E. E. Candlish, Bolton, Lanes.
 E. A. Carmichael, Edinburgh.
 Elizabeth B. Clark, Scotland.
 J. H. Clarke, Fife.
 G. G. Cochrane, Boness.
 T. A. Cochrane, Penicuik.
 J. W. P. Collier, Edinburgh.
 D. G. Courtis, Kirkcaldy.
 Nicholas S. Craig, Berwick-on-
 Tweed.
 T. J. Craig, Dundalk.
 J. E. Cruickshank, Edinburgh.
 Andrew Hume Cuthbert, Scotland.
 John Davidson, Cheshire.
 Bruce M. Dick, Westmoreland.
 Grace M. F. Dover, India.
 Alexander Dower, Wick.

- Anna L. Edward, Wigtown.
 Marjory H. Ewing, Methill.
 Helen L. M. Fisher, Dunfermline.
 John S. Fulton, Scotland.
 Owen S. Gibbs, Sileby, Long-
 borough.
 Edward S. Gordon, Glasgow.
 Hyman Greenberg, South Africa.
 H. R. Haigh, South Africa.
 I. Simson Hall, Glasgow.
 Basil T. Halliwell, Winchcombe,
 Glos.
 Margaret M. R. Hamilton, Forfar.
 J. S. Harris, Lincolnshire.
 Hilda R. Hay, Scotland.
 Enid M. Hern, Darlington.
 A. M. M. Hunter, Invergowrie.
 Ellis G. Hunter, Sunderland.
 Sheila Hunter, Orkney.
 G. W. Ireland, Pietermaritzburg.
 C. I. Irvine-Jones, Edinburgh.
 Harold Jamieson, Scotland.
 Eric M. Jenkins, Sheffield.
 Nora A. Jones, Manchester.
 R. D. Jones, Machynlleth.
 Edith Keighley, Blackburn, Lancs.
 Elizabeth R. Kemp, Dumfries.
 Alan J. Kilgour, Strathmiglo, Fife.
 Arthur King, Rhymney, Mon.
 Isabel Falconer King, Edinburgh.
 S. Lipetz, Edinburgh.
 R. C. Little, North Borneo.
 Simon Levie Lucas, Edinburgh.
 James I. M'Caa, Girvan.
 K. M. M'Cracken, Newcastle-on-
 Tyne.
 D. T. M'Donald, Belford.
 W. S. Macdonald, Invergordon.
 Andrew M'Farlane, Leadhills.
 Annabella M'Garity, Leadhills.
 D. P. M'Iver, Bowmore, Islay.
 G. S. Mackay, Scotland.
 J. E. M'William, Co. Roscommon.
 Grace J. Marshall, Mauchline, Scot-
 land.
 Joseph Martin, Whithorn.
 D. S. Middleton, South Africa.
 T. M'W. Miller, Scotland.
 Margaret L. Muir, Ayr.
 Ronald Munro, Blackburn, England.
 C. S. Nimmo, Edinburgh.
 George Ogilvie, Edinburgh.
 Solomon Petkoon, South Africa.
 A. M. W. Rae, Arbroath.
 F. W. Rawlings, Withington, Man-
 chester.
 William B. Reid, Australia.
 Jean S. Riach, Forfar.
 Isobel S. Rutherford, Edinburgh.
 D. Muir Scrimgeour, Dundee.
 Margory K. Semple, Dumfries.
 Archibald J. Shedden, Scotland.
 Arthur G. Smith, Aberdeenshire.
 Marjorie V. B. Smith, Edinburgh.
 G. D. Steven, Ayrshire.
 Eva Stewart, Edinburgh.
 Alexander Stuart, Scotland.
 Alister Sutherland, Strathconan,
 Ross-shire.
 C. M. Thompson, West Hartlepool.
 Colin B. Thomson, Dublin.
 Elsie M. Walker, Dunfermline.
 H. L. Wallace, Birkenhead.
 James Williams, Dumfries.
 K. B. Williamson, South Shields.
 D. C. Wilson, Anstruther.
 John T. Wilson, Lockerbie.
 J. H. Wright, Birmingham.
 A. D. M. Young, Arbroath.
 Helen Aretes Young, Adelaide,
 South Australia.

Summer 1919.

HISTOLOGY.

First-Class Certificates.

- | | | | |
|---|-----------------------------|-----|--------------------------------|
| 1 | George D. Steven, Kilmaurs. | 4 { | J. F. Cunningham, Edinburgh. |
| 2 | Margaret L. Muir, Scotland. | | G. S. Mackay, Sutherlandshire. |
| 3 | Jessie Eccles, Leith. | | |

(Arranged alphabetically).

- Harry Addison, Galashiels.
 Margaret Alice, Alloa.
 Davie A. D. Bannerman, Madras.
 Elizabeth S. Blair, Kirkcaldy.
 Robert A. F. Blair, Edinburgh.
 Eric P. Boyle, Dumfries.
 Ernest Bulmer, Newcastle-on-Tyne.
 Fernie L. Buttar, Scotland.
 Angus Henry Campbell, India.
 John M. Campbell, North Berwick.
 G. G. Cochrane, Bo'ness.
 Jean M. T. Connochie, Selkirk.
 Harold Keith Corkill, New Zealand.
 D. G. Coutts, Kirkcaldy.
 James C. B. Craig, Johnstone Bridge.
 Douglas R. Cramb, Edinburgh.
 Margaret G. C. Currie, Leith.
 Robert K. Dewar, India.
 Bruce M. Dick, Westmoreland.
 Grace M. F. Dover, India.
 E. K. A. Firth, North Burma.
 C. H. Fouché, South Africa.
 Elizabeth M. R. Garrigan, Edinburgh.
 M. A. Graham-Yooll, Edinburgh.
 E. G. R. Grant, Madras.
 J. A. Harris, Spain.
 Hilda R. Hay, Scotland.
 Flora Macdonald Hogg, Selkirk.
 Eric M. Jenkins, Sheffield.
 Clifford D. Kennedy, Stornoway.
 A. J. Kilgour, Fife.
 A. J. Lübke, South Africa.
 Betty Macdonald, Lancashire.
 David T. McDonald, Northumberland.
 Donald Macdonald, Stornoway.
 John R. McDonald, Northumberland.
 Wm. S. Macdonald, Invergordon.
 Andrew M'Farlane, Leadhills.
 Janie C. M'George, Dumfries.
 Isaac H. Maciver, Lochcarron.
 Kenneth A. Macrae, Bonar Bridge.
 Wm. F. Mair, Edinburgh.
 Alexander Murray Marr, Edinburgh.
 Joseph Martin, Wigtownshire.
 Alison Maxwell-Wood, Scotland.
 Ian C. Middleton, Hamilton.
 T. M'W. Millar, Scotland.
 J. Chassar Moir, Montrose.
 Hilda Page, London.
 W. D. Paterson, Leith.
 Kate Y. Pearson, Gillingham, Kent.
 C. M. Rautenbach, South Africa.
 Wm. B. Reid, Australia.
 J. D. Robertson, Edinburgh.
 Alex. A. M. Sandison, Putney.
 Roy M. Saunders, London.
 Thomas Skene, Edinburgh.
 Jean Lorrain Smith, Belfast.
 Eva Stewart, Edinburgh.
 Jessie W. Strang, Lanarkshire.
 Doreen Stranger, Cheltenham.
 Peter W. Tait, Leith.
 Florence L. Telfer, Tarbet.
 Charlotte E. W. Thompson, Edinburgh.
 Colin B. Thomson, Dublin.
 Elsie Thomson, Hongkong.
 Victor G. H. Wallace, Kirkcaldy.
 Wm. Nairn Boog Watson, Edinburgh.
 Christian M. B. Welsh, West Calder.
 K. B. Williamson, South Shields.

Second-Class Certificates (arranged alphabetically).

- S. F. Allison, Greenock.
 David G. Anderson, Carlisle.
 James W. Anderson, Edinburgh.
 Wm. Anderson, Edinburgh.
 C. J. Austin, Exeter.
 J. S. Banks, Edinburgh.
 J. B. S. Baxter, Sierra Leone.
 F. D. M. Beaton, Glasgow.
 Esther D. Proctor Beauchamp, West China.
 Margery Bennet, Bristol.
 George Black, South Africa.
 J. M. Blair, Girvan.
 Margaret I. Bower, Prestonpans.
 Wm. N. Brown, Edinburgh.
 Charles Brownlee, South Africa.
 Jane G. H. Burnet, Aberdeenshire.
 Ian Gordon Cameron, Broome, Australia.
 Kathleen S. Campbell, London.

- Mary C. Campbell, Edinburgh.
 W. Hugh Carter, Sunderland.
 D. Stuart Cherry, East Calder.
 Aileen M. Chester, Nottingham.
 Irene V. E. Christison, Edinburgh.
 Edwin Clark, Gatehouse-of-Fleet.
 Margaret Agnes Craig, Kirkcudbrightshire.
 T. J. Craig, Dundalk.
 Hilda M. Davis, London.
 Robert Turnbull Deas, Edinburgh.
 K. S. Dick, Scotland.
 Gladys Dodds, Kirkcaldy.
 H. A. Eadie, Leith.
 H. S. Everett, Massachusetts.
 Marjory H. Ewing, Methil.
 D. L. Ferguson, South Africa.
 Thomas Ferguson, Falkirk.
 Helen L. M. Fisher, Dunfermline.
 Wm. P. Galt, Darlington.
 Edward J. Gilroy Glass, North Berwick.
 David Gold, South Africa.
 Edward S. Gordon, Glasgow.
 R. T. F. Grace, New Zealand.
 R. W. Graham-Yooll, Edinburgh.
 David Grieve, Carlisle.
 I. Simson Hall, Glasgow.
 Helen Jack Hamilton, Forfar.
 James A. Hart, Edinburgh.
 Harry Hastings, Edinburgh.
 Janet M. Henderson, Ayr.
 P. S. Henderson, Galashiels.
 Anna M. Herdman, Ann Arbor, Mich.
 N. R. H. Holmes, Coventry.
 Doris M. Hopps, Fife.
 C. F. W. Illingworth, Halifax.
 R. G. Inkster, Edinburgh.
 Harold Jamieson, Scotland.
 J. D. Johnston, Ireland.
 Jeannie Kean, Lerwick.
 J. O. Kelly, Lanark.
 Elizabeth R. Kemp, Dumfries.
 A. M. Kerr, Abdie, Fife.
 Catherine G. Ketchin, Pathhead Ford.
 G. G. King, South Africa.
 H. J. R. Kirkpatrick, Taunton.
 Elizabeth M. Lindsay, Golspie.
 Sam Lipetz, Edinburgh.
 Nora Lister, Leslie.
 R. C. Little, North Borneo.
 Elizabeth H. R. Livingstone, Penrith.
 Wm. M. Lloyd, Wales.
 Kathleen B. Lorraine, Scotland.
 Wm. Love, Stranraer.
 Ian H. M'Clure, Castle Douglas.
 P. A. M'Credie, Stranraer.
 P. J. M'Diarmid, Perthshire.
 R. A. C. M'Intosh, Invergordon.
 E. Muriel Mackay, Edinburgh.
 Helen W. Mackenzie, Kalimpong.
 H. D. M'Kinna, Huddersfield.
 Ian H. Maclean, New Zealand.
 Herbert M'Nair, England.
 J. Milne Manson, Alloa.
 Kenneth A. T. Martin, Hong Kong.
 George A. Masson, Scotland.
 R. D. Miller, Ayrshire.
 Kathleen Milner, Ireland.
 Jessie E. M. Munro, Scotland.
 Ronald Munro, Blackburn, England.
 Susan S. Murdoch, Manby, N.S.W.
 Christina Morrison, Corstorphine.
 L. J. Myerson, Leeds.
 Dorothea M. Norwell, Perth.
 George Ogilvie, Edinburgh.
 Ian A. M. Paton, Dunfermline.
 Milorad Petrovitch, Belgrade.
 Oswald O. Popper, South Africa.
 Alexander M. W. Rae, Arbroath.
 James A. Richardson, Darlington.
 W. Jackson Royle, Manchester.
 Gordon Shaw Scott, Enfield.
 R. Antoinette M. Scott, Lawrence-kirk.
 D. Muir Scrimgeour, Dundee.
 S. Steff, Russia.
 Alexander Sim, North Berwick.
 D. Slight, Falkirk.
 Ann F. G. Smith, Scotland.
 Arthur G. Smith, Aberdeenshire.
 Dorothy F. Smith, England.
 T. R. C. Spence, Edinburgh.
 Cicely M. Steven, Edinburgh.
 H. G. Stockley, Colombo.
 Ian D. Stronach, Edinburgh.
 John Sturrock, Edzell.
 Alister Sutherland, Strathconan, Ross-shire.

R. E. M. Taunton, West Norwood.
 Brian G. Thompson, New Zealand.
 Vera Thompson, West Hartlepool.
 Rose Alice Thomsen, Leith.
 H. G. Triay, Gibraltar.
 John Trotter, Edinburgh.
 G. B. Walker, Broughty-Ferry.
 R. W. R. Watson, Clitheroe,
 Lancs.
 Hazel Watt, Calcutta.

Annie E. Webster, Galashiels.
 James Williams, Dumfries.
 Margaret S. Williamson, Kinross.
 John Wilson, Lockerbie.
 Mary Wilson, India.
 Rowland P. Wilson, New Zealand.
 Wm. Muirhead Wilson, Edinburgh.
 Wm. S. Woodburn, Glasgow.
 J. Barr Young, Lugar, Ayrshire.
 George W. Yule, Cowdenbeath.

EDWARD SHARPEY SCHAFER, Kt., LL.D., F.R.S., *Professor.*

PATHOLOGY AND BACTERIOLOGY.

Seniors.

First-Class Certificates.

- | | |
|------------------------------------|-------------------------------------|
| 1 Mrs Rutherford, M.A., Edin. | 5 { J. P. Hope. |
| 2 J. W. A. Hunter, Derby. | 5 { Henry Thomson, Aberdeen. |
| 3 { James B. Aitken, Saltcoats. | 7 { Harry D. Epstein, South Africa. |
| 3 { J. Stewart Macbeth, Pitlochry. | 7 { E. K. Roy Thomas, Wales. |

Second-Class Certificates.

- | | |
|---|---------------------------------------|
| 9 { Claude B. Brownlie, Orkney Islands. | 28 { Elspeth J. Hunter, Linlithgow. |
| 11 { Henry Hodgson, South Africa. | 28 { Winifred Wight, Edinburgh. |
| 12 James F. M'Conchie, Stranraer. | 30 { Arnold A. Hamilton, Lanarkshire. |
| 12 Henry J. E. Schultz, S. Africa. | 30 { Martha J. Meiring, S. Africa. |
| 13 { Miss Sarah B. H. Walker, Edin. | 32 Deborah F. Morrison, Russia. |
| 13 { Harvey Nichol, Kirkcudbright. | 33 Laura M. Ligertwood, Edin. |
| 13 { Ruth M. Monro, India. | 34 Doris M. Gibson, Guernsey. |
| 17 { Hugh B. Thomson, Edinburgh. | 35 { Cornelia J. J. Cross, S. Africa. |
| 17 { T. C. Wakefield, Cornwall. | 35 { Rosemary Owen-Morris, Wales. |
| 18 { M. M. Ostrowick, S. Africa. | 35 { John K. Murray, Stalybridge. |
| 18 { Helen F. Steele, India. | 38 { Douglas J. A. Kerr, Bradford. |
| 20 { Robert M. Galloway, Birkenhead. | 38 { D. E. Malone. |
| 20 { Thomas E. Hastings, London-derry. | 38 { Felix A. Meine. |
| 22 Marion C. Taylor, Scotland. | 41 { Morna S. MacGregor, St Andrews. |
| 23 { Susan A. Binnie, Stirlingshire. | 41 { Wm. A. Sinclair. |
| 23 { H. B. Pierce, Llangollen. | 43 { David M. Morison, India. |
| 25 { F. E. L. Beck, South Africa. | 43 { Helen S. Murray, Argyllshire. |
| 25 { Dorothy A. D. Cropper, Hants. | 46 { Cecil Siung, British Guiana. |
| 25 { Harry S. Fisher. | 46 { Isobel J. Callender, Linlithgow. |
| | 47 { Thomas F. Andrew, S. Africa. |
| | 47 { Jean Y. Andrew. |

Special Second-Class Certificates.

R. M'D. Cairns, Cockermouth.
P. H. J. Turton, Derby.

Marjorie Geen, England.
G. M. Gibbon, Scarborough.

Juniors.*First-Class Certificates.*

- 1 R. G. M'Intyre, Scotland.
2 Isobel M. Finlayson, Nairn.

3 { Jessie M. Craig, Kirkcud-
bright.
Angus Macdonald, Coatbridge.

Second-Class Certificates.

- | | |
|---|---|
| 5 { Margaret B. Martin, Stornoway.
S. W. Hardikar, India. | 34 { Mary E. Price, Guernsey.
Richard Howarth, Scotland. |
| 7 Paul S. Meiring, South Africa. | 36 David J. T. Oswald, Anstruther. |
| 8* Dorothea J. Mann, Scotland. | { Cecil S. A. Appleyard, Edin.
Lilian M. Croskery, Ireland. |
| 9 Molly Middlemass, Alnwick. | 37 { Adele Haggart, Kirkcaldy.
Gerald C. Sanders, Edinburgh. |
| { Victoria E. Brander, Belfast.
L. I. Cohen, Edinburgh. | { Hassan Zaifol, Cairo.
Agnes G. Brough, Berwick-on- |
| 10 { Matilda L. Craig, London-
derry.
John B. Taylor, Falkirk. | { Tweed.
D. I. Cameron, India. |
| { Maeve C. Brereton, Ballater.
J. Owen Kelly. | 42 { Oliver Gray, Edinburgh.
Agnes B. MacGregor, Dun- |
| 14 { Max G. L. Lucas, Edinburgh.
I. Mary Mears, Tynemouth. | { blane.
Katrine Dunn. |
| 18 { S. Margaret R. Thomson,
Anstruther.
Gilbert R. A. Armstrong, Scot- | 46 { Jane W. Macdonald, Coat-
bridge.
G. J. Smit, South Africa. |
| 19 { Jeannie P. Dunn, Maxwelltown.
Isobel G. H. Wilson, Lasswade. | 49 { Edward J. Crarer, Coupar
Angus. |
| { F. Theresa F. Angler, Fort-
William. | { Margaret M. Sands, Brazil.
Mary H. M. Gordon, Ayrshire. |
| 22 { John D. Grierson, London.
Ernest L. Sanders, Edinburgh. | 51 { John K. C. Liddell, Perthshire.
Carrick G. Payton. |
| { R. Margaret Bickerton, Shrews-
bury. | { Mary D. Brander.
Edward M. Fraser, Tain. |
| 25 { Frederick T. Ingram, Edin.
Ann L. Morrison, Broxburn. | 54 { James Sharp, Scotland.
W. L. Balfour, Edinburgh. |
| { Charles Stewart, Forfarshire. | { Helen E. Gibson, England.
J. F. van Iddekinge, S. Africa. |
| 29 { Victor W. Jack, Scotland.
C. A. Calder, Jamaica. | 57 { John D. Johnston, Ireland.
Richard J. Ogilvie Taylor, |
| { Eric E. Candlish, Bolton. | { Forfarshire.
Georgina Waters, Thurso. |
| 30 { Katharine Gifford, Edinburgh.
Marjorie E. F. Sanders, Edin. | |

J. LORRAIN SMITH, M.A., M.D., *Professor.*

J. RITCHIE, M.A., M.D., *Professor.*

*Summer 1919.***PRACTICAL PATHOLOGY.****Seniors.***First-Class Certificates.*

- | | | | |
|---|---------------------------------|---|------------------------------|
| 1 | Jessie M. Craig, Kirkcudbright. | 6 | Mary H. M. Gordon, Ayrshire. |
| 2 | S. W. Hardikar, India. | | J. Owen Kelly. |
| 3 | Angus Macdonald, Coatbridge. | | Molly Middlemass, Alnwick. |
| 5 | Max G. L. Lucas, Edinburgh. | | Janetta J. Powrie, Perth. |
| 5 | R. G. McIntyre, Scotland. | | |

Second-Class Certificates.

- | | | | |
|----|---|----|---|
| 10 | Helen E. Gibson, England. | 40 | C. A. Calder, Jamaica. |
| | Dorothea J. Mann, Scotland. | | Margaret B. Martin, Stornoway. |
| | Frederick T. Ingram, Edinburgh. | | I. Mary Mears, Tynemouth. |
| 14 | Victor W. Jack, Scotland. | 45 | Yvonne M. Jenkins, Calvely. |
| | Maeve C. Brereton, Ballater. | | Hilda D. Scott, Dumfriesshire. |
| | Grace Cumming, Edinburgh. | | Agnes G. Brough, Berwick-on-Tweed. |
| | Isobel M. Finlayson, Nairn. | | James Sharp, Scotland. |
| 20 | Katharine Gifford, Edinburgh. | 49 | Margaret M. Rutherford, Berwick-on-Tweed. |
| | Paul S. Meiring, So. Africa. | | John B. Taylor, Falkirk. |
| | Mary E. Price, Guernsey. | | Matilda L. Craig, Londonderry. |
| 24 | Mary D. Brander. | 52 | S. Margaret R. Thomson, Anstruther. |
| | James D. Mill, Anstruther. | | H. Zaifol, Cairo. |
| | Gerald G. Sanders, Edinburgh. | | Cecil S. Appleyard, Edin. |
| 27 | John M'D. S. Slater, Edin. | 56 | D. H. Stuart Boyd, Bo'ness. |
| | Adele Haggart, Kirkcaldy. | | Helen R. T. Hood, Hamilton. |
| | Isabella M. Hay, Scotland. | | Ernest L. Sanders, Edinburgh. |
| 28 | David J. T. Oswald, Anstruther. | 60 | Charles Badger, Scotland. |
| | Jane W. Macdonald, Coatbridge. | | D. I. Cameron, India. |
| | Victoria E. Brander, Belfast. | | Lilian M. Crockery, Ireland. |
| 33 | Jeannie P. Dunn, Maxwelltown. | 64 | Charlotte E. Forsyth, Edin. |
| | Agnes B. MacGregor, Dunblane. | | Eileen R. Freeman, Elgin. |
| | Marjorie E. F. Sanders, Edin. | | Ann L. Morrison, Broxburn. |
| 33 | G. J. Smit, South Africa. | 65 | Margaret M. Sands, Brazil. |
| | R. Margaret Bickerton, Shrewsbury. | | Georgina Waters, Thurso. |
| | Helen Gregory, Edinburgh. | | F. Theresa F. Angler, Fort-William. |
| 33 | Carrick G. Payton, Dalkeith. | 65 | J. A. Nel, South Africa. |
| | Charles Stewart, Forfarshire. | | John L. C. Liddell, Perthshire. |
| | John A. Thomson, Edinburgh. | | John D. Johnston, Ireland. |
| 33 | Richard J. Ogilvie Taylor, Forfarshire. | | |
| | Isobel G. H. Wilson, Lasswade. | | |

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|----|---|----|--|
| 68 | { Philomene R. Whitaker, Edinburgh.
John D. Grierson, London.
A. G. Mackay, Dundee.
Alex. H. Deighton, Scotland.
J. F. van Iddekinge, South Africa. | 76 | { Jas. W. T. Patterson, Lancashire.
Katrine Dunn, Lancashire.
Eric E. Candlish, Lancashire.
D. Campbell, Lewis. |
| 71 | { Doris S. Williams, Scotland.
W. L. Balfour, Edinburgh. | 80 | { Richard Howarth, Scotland.
Oliver Gray, Edinburgh.
F. L. A. Gace, South Africa.
Allan S. McCracken, Canada. |
| 75 | { Albert E. Blackley, Lanark. | 84 | { Helen Aretas Young, Adelaide.
Andrew S. Burns, Kilmarnock.
W. Douglas, Edinburgh. |
| | | 87 | { Alex. G. McClellan, England.
V. L. P. Hayes, Victoria. |

Juniors.

First-Class Certificates.

- | | | | |
|---|--|---|---|
| 1 | Wm. M. Robb, Blairgowrie. | | Jean T. W. Bucknell, New South Wales. |
| 2 | { Edward D. Dingle, Durham.
Fred W. Rawlings, Manchester.
R. H. Rose-Innes, S. Africa. | | Charles J. Irvine-Jones, Edin.
John Campbell, Killin. |
| 5 | Sheila Hunter, Orkney. | 6 | { Isabel Falconer King.
Wm. R. Levie, W. Hartlepool.
David T. McDonald, Northumberland.
Edward A. Wilson.
Arthur J. Wilson, Whitehaven. |

Second-Class Certificates.

- | | | | |
|----|--|----|---|
| 14 | John A. Fraser, Fife. | 34 | { J. B. Gyle, London.
Wm. B. Reid, Anstruther. |
| 15 | { Enid M. Hern, Darlington.
John R. McDonald, Belford.
Harry Radford Potter, Matlock. | | { John C. Adam, Forres.
R. P. Bliss, Edinburgh.
H. Margaret Cowan, Banchory. |
| 18 | { George Brewster, Stirlingshire.
Eleanor M. Cadman, Scotland.
Geo. S. Mackay, Sutherlandshire. | 36 | { Alexander Dower, Caithness.
Owen S. Gibbs, Leicestershire.
Hilda R. Gibbs.
James Thomson, Kilmarnock. |
| 19 | { Donald Mackenzie, Scotland.
D. S. Middleton, S. Africa.
Wm. Taylor, Forres.
Wm. S. Burr, Kilsyth.
John C. Cruickshank, Edinburgh. | 44 | { Peter K. Walker, Dunfermline.
Marjorie C. MacKintosh, Scotland.
R. Abramsky. |
| 24 | { L. S. Frost, England.
Philip R. Kemp, Birmingham.
George W. J. Mackay, Barra.
M. Taylor Smith, S. Africa.
Kathleen M. Turner, Hawick.
Isabella H. Allan, Edinburgh. | 45 | { John Murray Black, Edinburgh.
B. F. Halliwell.
James F. McCann, Girvan.
Marjorie V. B. Smith, Edinburgh. |
| 31 | { Charles M. Thompson, W. Hartlepool.
David C. Wilson, Anstruther. | 51 | { John Walker, West Lothian.
James H. Clark, Scotland.
Elizabeth T. Logan, Edinburgh. |

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|--|--|
| <p>George M. Bell, Galashiels.
 Nicholas S. Craig, Berwick-on-Tweed.
 N. R. Holmes, England.
 53 H. Penn, London.
 A. M. Wilson Rae, Arbroath.
 Samuel Sieff, Russia.
 Elizabeth N. Thomson, England.
 60 Marjorie K. Semple, Dumfries.
 Gordon Flint, Australia.
 61 Henry R. Haigh, S. Africa.
 Charles S. Nimmo, Edinburgh.
 Beatrice H. Paton, Scotland.
 64 C. Mackay Seward, Australia.
 Muriel J. Thomson, Russia.
 Stuart M. Alexander, Kelso.
 Charles W. Burns, Scotland.
 Elizabeth B. Clark, Scotland.
 67 Douglas R. Cramb, Edinburgh.
 A. Rae Gilchrist, Edinburgh.
 John W. Mason, N.S. Wales.
 Thomas A. Sellar, Banffshire.
 74 E. A. Carmichael, Edinburgh.
 John S. Fulton, Scotland.</p> | <p>76 John M. Bonar, Glasgow.
 Elsie Porter, Manchester.
 Mary Cheng, China.
 78 William S. Macdonald, Invergordon.
 Oswald L. Shearer.
 A. Sanders.
 Marjory H. Ewing, Muthill.
 Isabel M. Robertson.
 82 Solomon J. Rom, S. Africa.
 Thos. J. M. Walker, S. Africa.
 John H. Wright, Birmingham.
 James Colin Caird, Edinburgh.
 T. L. Cheah, Penang.
 87 Margaret A. Green, England.
 Arthur King, Monmouth.
 A. D. M. Young, Arbroath.
 George J. Alexander, Edinburgh.
 Lilius F. E. Begg, Howarth.
 92 Grace Campbell, Co. Durham.
 Grace J. Marshall, Scotland.
 Flora Margaret Stewart, Edinburgh.</p> |
|--|--|

J. LORRAIN SMITH, M.A., M.D., *Professor.*

MATERIA MEDICA.

First-Class Certificates (alphabetically arranged).

- | | |
|--|---|
| <p>Frederick E. L. Beck, S. Africa.
 Ronald M. Cairns, Cockermouth.
 Jessie M. Craig, Kirkcudbrightshire.
 Isobel F. Finlayson, Nairn.</p> | <p>R. M. Galloway, Birkenhead.
 Shankar W. Hardikar, Nagpur.
 John Palin Hope, Scotland.
 John Stewart Macbeth, Pitlochry.
 Henry John E. Schultz, Transvaal.</p> |
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Second-Class Certificates.

- | | |
|---|---|
| <p>James B. Aitken, Saltcoats.
 Gilbert R. A. Armstrong, Scotland.
 Susan A. Binnie, Stirlingshire.
 John Murray Black, Edinburgh.
 Victoria E. Brander, Belfast.
 Clarence A. Calder, Jamaica.
 Matilda L. Craig, Londonderry.
 William Eadie, Larbert.
 Geoffrey D. English, Natal.
 Harry D. Epstein, S. Africa.</p> | <p>Thomas E. Hastings, Londonderry.
 Henry Hodgson, Cape Colony.
 Noel R. Holmes, England.
 Helen R. T. Hood, Hamilton.
 John W. A. Hunter, Derby.
 Frederick T. Ingram, Edinburgh.
 Victor W. Jack, Scotland.
 J. Owen Kelly, Lanark.
 John R. C. Liddell, Scotland.
 Laura M. Ligertwood, Edinburgh.
 Max G. L. Lucas, Edinburgh.</p> |
|---|---|

Angus Macdonald, Coatbridge.
 R. G. McIntyre, Scotland.
 James F. Mackie, Brechin.
 Margaret B. Martin, Stornoway.
 Felix A. Meine, S. Africa.
 Paul S. Meiring, S. Africa.
 Molly Middlemass, Alnwick.
 Ruth M. Monro, India.
 Deborah F. Morrison, Russia.
 Montagu M. Ostrowick, S. Africa.
 Kenneth M. Purves, Scotland.

Gerald Gairdner Sanders, Edinburgh.
 Marjorie E. F. Sanders, Edinburgh.
 John B. Taylor, Falkirk.
 Richard J. Ogilvie Taylor, Forfarshire.
 E. K. Roy Thomas, South Wales.
 Henry Thomson, Aberdeen.
 Hugh Barbour Thomson, Edinburgh.
 P. H. J. Turton, Derbyshire.

Thomas Harrison, absent on active service from one examination, obtained marks in the others qualifying for second-class certificate.

PRACTICAL MATERIA MEDICA.

First-Class Certificates (alphabetically arranged).

Jessie M. Craig, Kirkcudbrightshire.	J: Owen Kelly, Lanark.
	S. Margaret Thomson, Anstruther.

Second-Class Certificates.

Eileen R. Freeman, Elgin.	Jane W. Macdonald, Coatbridge.
Basil T. Halliwell, Winchcombe.	Felix A. Meine, South Africa.
Douglas B. L. Lothian, Melrose.	William Taylor, Morayshire.
Angus Macdonald, Coatbridge.	

Summer 1919.

PRACTICAL MATERIA MEDICA.

First-Class Certificates.

1 Herbert S. Everett, Roslindall, Mass., U.S.A.	2 Hilda Roberts, Galashiels.
	3 Ernest MacQuiddy, California.

Second-Class Certificates.

4 { Noel R. H. Holmes, England.	10 Robert V. Thomas, Barmouth.
{ John R. Liddell, Errol.	{ John S. Fulton, Scotland.
{ Alexander Dower, Wick.	11 { C. Omer West, Kansas, U.S.A.
6 { Edward M. Fraser, Tain.	
{ John W. Mason, N.S. Wales.	
{ Alister Sutherland, Ross-shire.	

A. R. CUSHNY, M.A., M.D., *Professor.*

EXPERIMENTAL PHARMACOLOGY.

First-Class Certificates.

Thomas Harrison, Preston.	S. W. Hardikar, Nagpur, India.
F. W. A. Hunter, Derby.	F. W. Rawlings, Withington.
R. G. McIntyre, Perthshire.	

Second-Class Certificates.

Gerald G. Sanders, Edinburgh.
 Hilda D. Scott, Dumfriesshire.
 E. R. Steel, U.S.A.

C. M. Thompson, West Hartle-
 pool.
 A. T. Wilson, Whitehaven.

W. C. SILLAR, M.D., B.Sc., *Lecturer.*

*Summer 1919.***FORENSIC MEDICINE.***First-Class Certificates.*

- 1 James M. Young.
- 2 Jessie Gordon.
- 3 Helen Campbell.

- 4 { Jenny R. Tait.
 A. Sheila MacLeod.
 C. B. F. Millar.
 D. A. Miller.

Second-Class Certificates.

- 8 Henry Thomson.
- 9 { Christina M. Hawick.
 William Malcolm MacPhail.
 Hugh W. Y. Taylor.
- 12 { Thomas Sprunt.
 A. Mildred Macgown.
- 14 { Edith K. Chandler.
 Jean S. B. McNeil.
 Mabel Thomson.
- 15 { A. May Roxburgh.
 A. W. Davison.
 Douglas J. O. Macaulay.
 John Palen Hope.
 Kenneth M. Purves.
 Anna M. Williams.
- 20 { J. H. Fairweather.
 Isobel M. M. Aitken.
 Harry Alexander.
 Agnes R. Macgregor.
- 27 { Janet Grant.
 Marjorie Thomson.
 Dorothy M. Smith.
 Dorothea M. Gall.
- 31 { Mary L. Gilchrist.
 Donald Rankine.
 William L. Hunter.
 Philip Barlow.
- 33 { Ronald M. Cairns.
 J. W. A. Hunter.
 Florence E. McKenzie.

- 38 { Harry Cohen.
 William Isbister.
 E. Madge Mure.
 Ruth J. D. Ritchie.
- 42 { H. J. E. Schultz.
 Marguerite Stewart.
- 43 { Grace S. Calver.
 Roberta T. Rankin.
 J. E. Haine.
- 47 { R. M. Galloway.
 Victor G. Massie.
 Alice B. S. Smith.
 Gordon R. Scarff.
 Isobel Macfie.
- 51 { Arthur Gordon Cumming.
 Eileen S. P. Rowney.
 Christine G. Mitcheson.
 Elspeth L. Gilmour.
 N. Giblin.
- 55 { C. G. Booker.
 C. Anderson Robson.
 Charles Ernest Scott.
 E. Grace Wilkes.
- 60 { Louie A. Rubidge.
 Philip B. Smale.
 Ellen Russell.
- 64 { Winifred McCrae.
 S. Borochowitz.
 James H. Dick.
 Donald A. Cadman.
 E. Isserow.
 Robert MacGarrol.
 James F. McConchie.

- 71 { A. Lee McGregor.
Vivian C. Beckerleg.
Arthur W. P. Haine.
74 { Andrew R. Murray.
Marion E. Reid.
Eleanor H. Kelly.

- 77 { T. R. R. Todd.
C. Wellwood Rubidge.
T. E. Hastings.
Ernest H. Connell.
J. P. Immelman.
John Learmont, M.A.

HARVEY LITTLEJOHN, M.A., M.B., B.Sc., *Professor.*

Summer 1919.

PUBLIC HEALTH.

First-Class Certificates.

- | | |
|---|---|
| 1 Harry Alexander, Edinburgh. | 7 Kenneth M. Purves, Scotland. |
| 2 A. Sheila MacLeod, Glasgow. | 8 Agnes R. Macgregor, London. |
| 3 William Eadie, Scotland. | 9 { Helen Campbell, Canterbury.
John P. Hope, Musselburgh. |
| 4 { James H. Dick, Scotland.
Mabel Thomson, Ireland. | J. M. Young, M.A., B.Sc.,
Lanark. |
| 6 C. B. F. Millar, Alloa. | |

Second-Class Certificates.

- | | |
|--|--|
| 12 C. F. Beyers, S. Africa. | |
| 13 Janet Grant, Dufftown. | |
| V. C. Beckerleg. | |
| 14 { Grace S. Calver, Edinburgh.
H. J. C. Durward, New Zealand.
Joseph Fairweather, Clitheroe.
Reginald N. Johnston, S. Africa. | 36 { Kenneth S. Brown, Edinburgh.
A. W. Davison, Edinburgh.
Mary L. Gilchrist, Fifeshire.
J. W. A. Hunter, Derby.
Roberta T. Rankin, Lamington.
Helen Russell, Edinburgh.
T. R. R. Todd, Scotland.
I. Goldberg, S. Africa. |
| 19 { A. May Roxburgh, Scotland.
Margaret L. Dobbie, Scotland.
J. A. Gillison, New Zealand. | Michael Goldberg, London.
William P. Petrie, Dundee. |
| 22 J. E. Haine, Tetbury. | 43 { J. C. Rabie, S. Africa.
C. W. Rubidge, Cape Colony.
Jack Smith, S. Africa.
E. Grace Wilkes, Darlington.
George S. Barnett, England.
R. M'D. Cairns, Cockermouth.
Isabella A. Gillespie, N. China.
Christina M. Hawick, Scotland. |
| 23 { C. G. Booker, S. Africa.
C. B. Brownlie, Scotland.
C. Anderson Robson, Belfast.
Thomas Sprunt, Perthshire. | 50 { A. M. Macgown.
Jean S. B. M'Neil, Edinburgh.
Victor G. Massie, Edinburgh.
C. S. G. Pillai, India.
Alice B. S. Smith, Edinburgh.
Jenny R. Tait, Edinburgh. |
| 27 Alexander L. M'Gregor, S. Africa. | 60 { Harry Cohen, Edinburgh.
Henry R. Dodson, Leith.
Henry Thomson, Aberdeen.
Anna M. Williams, Scotland. |
| 28 { A. Y. Cochrane, Bo'ness.
William Isbister, Kirkwall.
Florence E. M'Kenzie, England.
William M. MacPhail, Argyle-shire. | |
| 32 { N. Giblin, Tasmania.
Arthur J. C. Hamilton, Edinburgh. | |
| 33 { H. H. Holden, Higham.
Dorothy M. Smith, Scotland. | |

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|--|---|
| <p>64 { Evan M. Byres, Edinburgh.
Er. est H. Connell, London.
Jessie Gordon, Helmsdale.
William L. Hunter, S. Africa.
E. Isserow, S. Africa
Jean M'Lennan, Oban.
Christine G. Mitcheson,
Staffordshire.
Isobel Aitken.
R. L. Baikie, Natal.
Aidan Campbell, S. Africa.
71 { Eleanor Kelly, Ireland.
J. S. Macbeth, Pitlochry.
Jean R. MacLean, Coupar
Angus.
Harvey Nichol, M.A.
William L. Grassick, M.A., Ayre.
T. E. Hastings, Ireland.
John Learmont, M.A., Scotland.
D. A. Millar, Ayre.
78 { C. L. Pieters, S. Africa.
Donald Rankin, Fort William.
Marion E. Reid, Scotland.
Ruth J. D. Ritchie, Tranent.
Gordon R. Scarff, Scotland.
William A. Sinclair, Kirkwall.
Donald A. Cadman, Leith.
Edith K. Chandler, Punjab.
James Davidson, Scotland.
Elspeth L. Gilmour, Man-
chester.
Arthur W. P. Haine, Edin-
burgh.
88 { A. A. Hamilton, Lanarkshire.
J. P. Leckie, Fifeshire.
Isabel Macfie, Scotland.
James Reid, Scotland.
Helena J. Robertson, Scotland.
Louie A. Rubidge, S. Africa.
Sydney S. Sumner, Birming-
ham.
Hugh W. Y. Taylor, Burghhead.</p> | <p>101 { J. P. Immelman, S. Africa.
A. Rowand Murray, Troon.
H. J. E. Schultz, S. Africa.
Dorothy M. Somerville, W.
Kilbride.
Hugh B. Thomson, Edinburgh.
Jacob Kuit, S. Africa.
D. J. O. Macaulay, England.
Margaret M. Proudfoot,
106 { Dumfries.
Frank M. Stuart, S. Africa.
I. M'Laren Thompson, New-
foundland.
Philip Barlow, Leicester.
Grace W. Eason, Duns.
Edward L. Ewan, W. Hartle-
pool.
J. W. Eykelenboom, S. Africa.
Elizabeth S. Forbes, Scotland.
James M'Conchie.
111 { Flora MacDonald, N. Wales.
A. G. M'Gillivray, Edinburgh.
David J. T. Oswald,
Anstruther.
Rosemary Owen - Norris,
Wales.
John Robinson, Cumberland.
Arthur G. Cumming, Thurso.
S. Levey, S. Africa.
H. B. Pierce, Llangollen.
Eileen S. P. Rowney.
122 { V. A. Stookes, B.Sc., Liver-
pool.
D. L. M. Tod, Scotland.
T. C. Wakefield, Cornwall.
S. J. Eapen, India.
Owen Fitzpatrick, Ireland.
R. M. Galloway, Birkenhead.
129 { F. Krone, S. Africa.
John R. Larson.
F. A. Meine, S. Africa.
Jean Murray, Edinburgh.</p> |
|--|---|

C. HUNTER STEWART, D.Sc., M.B., *Professor.*

MEDICINE.

First-Class Certificates.

- | | |
|--|---|
| <p>1 Isobel M. Finlayson, Nairn.
J. S. Macbeth, M.A., Pitlochry.
David L. M. Tod, M.A., B.Sc., Scotland.
4 R. G. Macintyre, Scotland.
5 S. W. Hardikar, India.
6 R. M. Galloway, Birkenhead.
Oliver Gray, Edinburgh.
8 J. B. Aitken, Saltcoats.
Charles Stewart, Forfarshire.
10 Maeve C. Brereton, Ballater.
Matilda L. Craig, Ireland.</p> | <p>12 Jessie M. Craig, Kirkcudbrightshire.
Victoria E. Brander, Belfast.
Jeanie P. Dunn, Maxwelltown.
T. E. Hastings, Ireland.
Jane W. Macdonald, Coatbridge.
13 Margaret B. Martin, Stornoway.
Marguerite Stewart, Madras.
Evan K. R. Thomas, Wales.
Olive Mackie Whyte, M.A., Dundee.</p> |
|--|---|

Second-Class Certificates.

- | | |
|---|---|
| <p>21 John P. Hope, Scotland.
Helen F. Steele, India.
Eileen S. P. Rowney, Satara.
Mary H. M. Gordon, Barrhill.
H. Steel Fisher, Glasgow.
John W. A. Hunter, Derby.
Elspeth J. Hunter, Linlithgow.
J. P. Leckie, Scotland.
26 Kitty Gifford, Edinburgh.
Agnes G. Brough, Berwick-on-Tweed.
G. R. A. Armstrong, Scotland.
Molly Middlemass, Alnwick.
Adele Haggart, Kirkcaldy.
Marjorie E. F. Sanders, Edin.
32 John B. Taylor, Falkirk.
Margaret R. Bickerton, Shrewsbury.
William L. Hunter, S. Africa.
Marion C. Taylor, Scotland.
Margaret M. Sands, Brazil.
37 Max G. L. Lucas, Edinburgh.
Agnes B. MacGregor, Dunblane.
L. J. Cohen, South Africa.
Henry Thomson, Aberdeen.
43 Yvonne M. Jenkins, Calvety.
Isabella A. Gillespie, China.
L. P. Greson, India.
46 Susan A. Binnie, Stirlingshire.
D. J. Cameron, Assam.</p> | <p>S. Margaret R. Thomson, Anstruther.
49 Hugh B. Thomson, Edin.
Marjorie Norris, Manchester.
W. L. Balfour, Edinburgh.
Isabel G. H. Wilson, Lasswade.
Marjorie C. Kerr, Lauder.
G. J. Smit, South Africa.
53 J. M. Thompson, Newfoundland.
Angus Macdonald, Coatbridge.
F. T. Ingram, Edinburgh.
H. J. E. Schultz, S. Africa.
James Sharp, Scotland.
59 M. M. Ostrowick, S. Africa.
Arnold A. Hamilton, Lanarkshire.
Helen E. Gibson, England.
63 C. A. Calder, Jamaica.
Paul S. Meiring, S. Africa.
F. E. L. Beck, South Africa.
D. E. Malone, West Indies.
Evelyn B. G. Ewen, Gatehouse.
67 Sydney S. Sumner, Birmingham.
Margaret M. Rutherford, Berwick.
Katrine Dunn, Harthill.</p> |
|---|---|

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|----|--|-----|------------------------------------|
| | O. A. Omolulu, W. Africa. | | Jenny R. Tait, Edinburgh. |
| | Victor W. Jack, Scotland. | 107 | Doris M. Gibson, Guernsey. |
| 72 | T. R. R. Todd, Scotland. | | Charlotte E. Forsyth, Edin. |
| | Eileen R. Freeman, Elgin. | | Lilian M. Croskery, Ireland. |
| | J. K. Liddell, Scotland. | | Morna S. MacGregor, St Andrews. |
| | Andrew S. Burns, Kilmarnock. | | A. S. McCracken, Toronto. |
| 78 | Sarah B. H. Walker, Edin. | 110 | Doris Williams, Scotland. |
| | James D. Mill, Anstruther. | | James F. McConchie, Stranraer. |
| | Mary Mears, Tynemouth. | | Mary D. Brander, Belfast. |
| | Dorothea T. Mann, Scotland. | | Charles E. Scott, Selkirk. |
| | B. Leader, South Africa. | | F. M. Stuart, South Africa. |
| | Winifrid Wight, Edinburgh. | | Jessie R. H. O'Sullivan, Shillong. |
| 80 | John D. Grierson, London. | 116 | David J. T. Oswald, Anstruther. |
| | Helen R. T. Hood, Hamilton. | | F. A. Meiné, South Africa. |
| | M. E. Price, Guernsey. | 120 | J. M. Bosman, South Africa. |
| | Dorothy M. Patrick, Edin. | | Ann L. Morrison, Broxburn. |
| | F. Theresa F. Angler, Fortwilliam. | 122 | William A. Sinclair, Kirkwall. |
| | Ruth L. G. Shannon, Scot. | | Alice Gray, Scotland. |
| | Henry Hodgson, S. Africa. | | Edward M. Fraser, Tain. |
| 89 | H. B. Pierce, Llangollen. | 125 | A. G. MacGillivray, Edin. |
| | Carrick G. Payton, Dalkeith. | | George S. Barnett, England. |
| | Harvey Nichol, M.A., Parton, Scotland. | | Douglas J. A. Kerr, London. |
| | Sydney Rodriguez, Burma. | | Connie Cross, South Africa. |
| | Deborah F. Morrison, Russia. | 128 | Jean T. Andrew, Bo'ness. |
| 91 | Charles W. Badger, Scotland. | | Rosemary Owen - Morris, Wales. |
| | E. J. Swirsky, South Africa. | | |
| | E. H. Ablett, Cumberland. | | |
| | Ernest L. Sanders, Edin. | | |
| | Margaret T. Rutherford, Scot. | | |
| | W. H. Stuart Boyd, Bo'ness. | | |
| 99 | J. W. T. Patterson, Haywood. | | |
| | M. T. Meiring, South Africa. | | |
| | Ewan M. Byres, Edinburgh. | | |
| | H. D. Epstein, South Africa. | | |
| | A. Leonore Blair, Poona. | | |

G. LOVELL GULLAND, C.M.G., M.D., *Professor.*

MIDWIFERY AND GYNECOLOGY.

Men Students.

First-Class Certificates.

- | | | | |
|---|---------------------------------|----|--------------------------------|
| 1 | D. A. Miller, Scotland. | 8 | C. B. F. Millar, Scotland. |
| 2 | Harry Alexander, Edinburgh. | | Arthur J. C. Hamilton. |
| | P. M. Brodie, Selkirk. | 10 | L. S. P. Davidson, Scotland. |
| | Harry Cohen, Edinburgh. | | J. W. Eykelenboom, S. Africa. |
| 4 | Arthur T. Harris, South Africa. | 11 | William Isbister, Scotland. |
| | A. W. Davison, Scotland. | | Henry Mackay, Scotland. |
| 7 | J. H. Fairweather, England. | | E. Fleming Griffin, S. Africa. |
| | | 14 | Kenneth S. Brown, Edinburgh. |

Second-Class Certificates.

- | | | | |
|----|--------------------------------------|----|-----------------------------------|
| | James H. Dick, Scotland. | 55 | J. J. R. Binnie, Stirlingshire. |
| | William Eadie, Scotland. | | Ernest Connell, England. |
| | William Malcolm MacPhail, Scotland. | 56 | Howard S. Plowman, S. Africa. |
| 16 | J. E. Haine, Tetbury, Glos. | | Donald Jn. Morrison, Scotland. |
| | Michael Goldberg, London. | | Jack Smith, South Africa. |
| | D. L. M. Tod, Scotland. | | S. Borochowitz, South Africa. |
| | Arthur W. P. Haine, London. | 61 | Sydney Levey, South Africa. |
| | W. E. Grassick, Scotland. | | Alexander Joe, Scotland. |
| | Thomas Sprunt, Scotland. | 64 | E. Isseson, South Africa. |
| 24 | C. Williamson Rubidge, South Africa. | | A. Rowand Murray. |
| | A. L. M-Gregor, South Africa. | 65 | Wm. Augustus Slack, B.W.I. |
| 27 | Duncan F. Yuill, Scotland. | | A. J. C. Durward, Scotland. |
| | J. A. Gillison, New Zealand. | | Douglas J. O. MacAulay. |
| | Reginald Noel Johnson, South Africa. | 67 | T. R. R. Todd, Scotland. |
| | L. Siff. | | Victor Geo. Massie, Scotland. |
| 29 | C. F. Beyers, South Africa. | | F. G. H. Brown, Coventry. |
| | John M. Lemay, Scotland. | | Edward L. Ewan, England. |
| | I. Goldberg, South Africa. | 71 | Basil A. G. A. Edelston, England. |
| | F. Krone, South Africa. | | Lewis Teitelman, Scotland. |
| 34 | James M. Young. | | R. M. Burnie, Scotland. |
| | A. M. Simson, Scotland. | | G. R. Waller. |
| | R. Lund Baikie, Pietermaritzburg. | 75 | S. G. Sumner, England. |
| | T. C. Wakefield, England. | | Donald Rankin, Scotland. |
| 37 | J. P. Leckie, Scotland. | | Philip Smale, England. |
| | Robert Jackson, Scotland. | | J. M. Bosman. |
| | Donald A. Cadman, Scotland. | | R. N. Nanda. |
| | A. Y. Cochrane, Scotland. | 81 | J. G. Tait, Scotland. |
| 42 | I. Maclaren Thomson, Newfoundland. | | W. R. Dupre. |
| | J. P. Immelman, South Africa. | | Donald A. Cunningham, Edinburgh. |
| 44 | C. Anderson Robson, Ireland. | 83 | A. Campbell, South Africa. |
| | J. C. Rabie, South Africa. | | Philip Barlow, Leicester. |
| | A. Badenoch, Dunfermline. | | C. S. G. Pillai. |
| 48 | William L. Hunter, S. Africa. | | W. N. J. Chapman, Scotland. |
| | James Davidson, Scotland. | 87 | Wm. Arnold Sinclair. |
| | William P. Petrie, Scotland. | | Sydney Edgar Ammon. |
| 51 | John Learmont, Scotland. | | John Robinson, England. |
| | V. C. Beckerleg, Natal. | | Evan M. Byres, Edinburgh. |
| 53 | H. H. Holden, England. | 93 | B. Friedman. |
| | Owen Fitzpatrick, Ireland. | | Louie Ratnayeke, Ceylon. |
| | | 94 | Arthur G. Cumming, Scotland. |
| | | 96 | G. M. Gibbon, England. |
| | | | H. E. Cezair, Trinidad. |

J. HALLIDAY CROOM, Kt., M.D., *Professor.*
A. H. F. BARBOUR, M.D., LL.D., *Lecturer.*

Women Students.*First-Class Certificates.*

- | | |
|--------------------------------------|------------------------------------|
| 1 Janet Grant, Scotland. | 7 Jessie Gordon, Scotland. |
| 2 A. Mildred Macgown, Scotland. | 8 { Helen Russell, Scotland. |
| 3 Florence Emily Mackenzie, England. | { Olive Mackie Whyte, Scotland. |
| 4 Agnes R. Macgregor, England. | 10 M. Lindsay Gilchrist, Scotland. |
| 5 Mabel Thomson, Ireland. | 11 Dorothy M. Smith, Scotland. |
| 6 Marjorie Thomson, S. Africa. | 12 { Jean S. B. M'Neil, Scotland. |
| | { A. May Roxburgh, Scotland. |

Second-Class Certificates.

- | | |
|--|--|
| 14 Margaret M. M'Dowall, England. | 30 Eileen S. P. Rowney, Satara. |
| 15 { Margaret L. Dobbie, Scotland. | 31 { Christine Gardner Mitcheson, |
| { Dorothy M. Somerville, Scotland. | { England. |
| 17 { Roberta Theresa Rankin, England. | 33 E. Madge Mure, Scotland. |
| { E. Grace Wilkes, England. | 34 Alice B. S. Smith, Scotland. |
| 19 A. K. Chandler, India. | 34 { Christine V. D. Willway, England. |
| 20 Margaret Lilley, Scotland. | { Grace W. Eason, Scotland. |
| 21 Jean R. Maclean, Scotland. | 35 { Winsome D. Grantham, England. |
| 22 { Edith Sheila MacLeod, Scotia. | { Isabel Macfie, Scotland. |
| { Christina M. Hawick, Scotland. | 38 Helena Jane Robertson, Scotland. |
| { Flora Macdonald, Wales. | { Isabella M. Malcolm Aitken, |
| 23 Eleanor H. Kelly, Scotland. | { Scotland. |
| 26 E. Winifred M'Crae, Scotland. | 39 { Jean Murray, Scotland. |
| 27 { Katrine Dunn, England. | { Marjorie Norris, England. |
| { Isabella Anne Gillespie, China. | { Margaret M. Proudfoot, Scotland. |
| 29 Dorothea Moncrieffe Gall, Scotland. | 43 Elspeth L. Gilmour, England. |

J. W. BALLANTYNE, M.D.

A. H. F. BARBOUR, M.D.

*Lecturers.***SURGERY.***First-Class Certificates.*

- | | |
|------------------------------|------------------------------------|
| 1 Janet Grant, Dufftown. | 6 { H. S. Lucraft, W. Australia. |
| 2 Agnes R. M'Gregor, London. | { Marjorie Thomson, S. Africa. |
| 3 P. Martin Brodie, Selkirk. | { J. H. Fairweather, Lancashire. |
| 4 J. M. Young, Lanark. | 8 { Jean R. Maclean, Coupar Angus. |
| 5 A. W. Davison, Edinburgh. | { H. S. Plowman, South Africa. |
| | { Helen Russell, Edinburgh. |

Second-Class Certificates.

- | | | | |
|----|---|----|--|
| 12 | { A. J. C. Hamilton, Edinburgh.
C. A. Robson, Ireland.
H. Cohen, Edinburgh.
J. A. Gillison, New Zealand.
Jessie Gordon, Scotland. | 57 | { Dorothy M. Somerville, West
Kilbride. |
| 14 | { A. Mildred M'Gown, Millport.
A. May Roxburgh, Scotland.
D. Yuille, Scotland. | 58 | { R. M. Burnie, Scotland.
H. H. Holden, Burnley.
J. J. R. Binnie, Stirling. |
| 20 | { Margaret Gilchrist, Fifeshire.
Harry Alexander, Edinburgh. | 60 | { B. A. E. A. Edelson, Man-
chester.
A. C. Lornie, Cambusnethan.
A. Y. Cochrane, Bo'ness.
A. Campbell, South Africa. |
| 21 | { A. M. Simson, Edinburgh.
C. F. Beyers, South Africa. | 63 | { Margaret L. Dobbie, Scotland.
W. Eadie, Larbert.
E. Madge Mure, Edinburgh.
Isabel Macfie, Scotland. |
| 23 | { Ruth J. D. Ritchie, Tranent.
A. Joe, Brechin. | 69 | { D. A. Cadman, Leith.
F. Krone, South Africa. |
| 25 | { D. A. Millar, Ayr.
Dorothy M. Smith, Stranraer.
Gladys A. A. Boyd, Banff. | 71 | { Jack Smith, South Africa. |
| 28 | { H. Dryerre, Blairgowrie.
L. S. P. Davidson, Scotland.
Christina M. Howick, Scotland. | 72 | { Roberta T. Rankin, Laming-
ton. |
| 32 | { C. B. F. Millar, Alloa.
Alice B. S. Smith, Edinburgh.
T. Sprunt, Perthshire. | 73 | { Sydney Levey, South Africa.
W. Gordon Robson, Edinburgh. |
| 35 | { A. Sheila Macleod, Glasgow.
W. M. Macphail, Argyllshire. | 75 | { J. W. Eykelboom, S. Africa.
Elspeth L. Gilmour, Man-
chester. |
| 37 | { Florence E. Mackenzie, Eng-
land.
Mabel Thomson, Ireland.
R. N. Johnson, South Africa.
Eleanor H. Kelly, Scotland. | 76 | { V. G. Massie, Edinburgh.
C. W. Rubidge, South Africa.
Helena J. Robertson, Scotland. |
| 39 | { J. Learmont, Scotland.
Jean S. B. M'Neill, Edinburgh.
Edith K. Chandler, India.
E. F. Griffin, South Africa. | 79 | { Apo'ina A. Wilson, Newfound-
land. |
| 43 | { E. Winifred McCrae, Edin-
burgh.
Margaret M. M'Dowall, Brad-
ford. | 81 | { Heri Ross, Edinburgh. |
| 47 | { A. A. Denham, Cambridge.
H. J. C. Durward, New Zealand.
J. E. Haine, Gloucestershire.
H. Mackay, Rogart.
V. A. Stookes, Liverpool.
E. Grace Wilkes, Darlington.
J. H. Dick, Scotland. | 83 | { W. Isbister, Kirkwall.
M. S. Goldberg, South Africa.
Winsome D. Grantham, Lin-
colnshire. |
| 53 | { Dorothy M. Gall, Scotland.
Christine G. Mitcheson, Stafford-
shire. | 84 | { E. Isserow, South Africa.
Jean M'Lennan, Ohan.
Helen C. Spencer, Cheshire. |
| 56 | { E. K. Connell, London. | 89 | { D. A. Cunningham, Edinburgh.
L. Teitelman, Edinburgh. |
| | | 91 | { P. B. Small, Macclesfield.
A. K. Towers, England. |
| | | 93 | { Christina V. D. Willway, Bath. |
| | | 94 | { W. A. Slack, St Kitts.
T. C. Wakefield, Cornwall. |
| | | 96 | { V. C. Beckerleg, Natal.
Grace W. Eason, Duns. |
| | | 99 | { J. P. Immelman, South Africa.
Louie A. Rubidge, S. Africa. |

100	John M'Leman, Glasgow.	108	{ R. L. Baikie, Pietermaritzburg.
101	{ Dorothy Court, England.		{ S. C. Soni, India.
	{ J. C. Rabie, South Africa.	110	{ C. S. G. Pillai, India.
103	C. C. Brown, Alloa.		{ J. H. Verway, South Africa.
	{ Isabella M. M. Aitken, Scotland.	112	S. Borochowitz, South Africa.
104	{ A. G. Cumming, Thurso.	113	Flora McDonald, North Wales.
	{ A. R. Murray, Troon.	114	J. A. Loudon, Galashiels.
	{ Jean M. Murray, Edinburgh.		

The following were unavoidably absent from one examination but reached *second-class certificate* standard in the other:—

Helen Campbell, Canterbury.	Anna M. Williams, Scotland.
A. Badenoch, Dunfermline.	Grace E. Calver, Edinburgh.
A. L. M. McGregor, Capetown.	D. H. Williamson, Fife.
A. T. Harris, South Africa.	K. S. Brown, Edinburgh.
H. W. Y. Taylor, Morayshire.	W. L. Grassick, Ayr.
Marion E. Reid, Perthshire.	

ALEXIS THOMSON, M.D., F.R.C.S., *Professor*.

TUBERCULOSIS.

Autumn Term.

First-Class Certificates.

1 { Dora W. Gerrard.	3 Dorothy G. Davidson.
{ Margaret S. Caskie.	4 Harry Berelowitz.

Second-Class Certificates.

5 R. A. Hoyte.	12 Mona Macnaughton.
6 Alice Bloomfield.	13 Mabel S. Martin.
7 Adam Armit.	{ J. M'Murray Cole.
8 Marjorie King.	{ H. I. A. Dingwall.
9 J. S. Westwater.	16 E. G. H. Payne.
10 { L. V. R. Becker.	17 A. Marais Moll.
{ Beatrice S. Russell.	

Summer Term.

First-Class Certificate.

1 A. M. Simson.

Second-Class Certificates.

2 H. Ross.	6 Sydney Rodriguez.
3 Ian F. Macleod.	{ Alfred Badenoch.
4 Mary E. Cripps.	{ Arthur T. Harris.
5 A. D. Maxwell.	

R. W. PHILIP, Kt., M.A., M.D., *Professor*.

DISEASES OF THE EYE.**Autumn Term.***First-Class Certificates.*

- | | | |
|-------------------------|--|--------------------|
| 1 Annie Sheila MacLeod. | \| | 2 Morris Goldberg. |
|-------------------------|--|--------------------|

Second-Class Certificates.

- | | | |
|--------------------------------|--|----------------------------|
| 3 Henry W. Burne. | \| | 11 Marjorie Kerr. |
| 4 Harry Berelowitz. | \| | 11 Isabel Macfie. |
| 5 Janet Grant. | \| | 11 Margaret M. Proudfoot. |
| 6 Christine Gardner Mitcheson. | \| | 14 Dorothy M. Smith. |
| 7 Henry Mackay. | \| | 15 Alexander L. MacGregor. |
| 7 Florence E. Mackenzie. | \| | 16 C. F. Beyers. |
| 9 Agnes Mildred Macgown. | \| | 16 Robert Jackson. |
| 10 Philip Barlow. | \| | 18 John Learmont. |
|  | \| | 18 Eliza Winifred M'Crae. |
|  | \| | 20 Alexander Joe. |

Spring Term.*First-Class Certificates.*

- | | | |
|-----------------------|--|---------------------|
| 1 Edith Grace Wilkes. | \| | 2 Arthur A. Denham. |
|-----------------------|--|---------------------|

Second-Class Certificates.

- | | | |
|-------------------------|--|-----------------------------|
| 3 Andrew Rowand Murray. | \| | 10 Dorothy M. Somerville. |
| 4 Harry S. Lucraft. | \| | 10 Christine V. D. Willway. |
| 5 Thomas Sprunt. | \| | 12 Marjorie Thomson. |
| 6 Andrew S. Burns. | \| | 13 Lewis Teitelman. |
| 7 Marguerite Stewart. | \| | 13 George A. Sinclair. |
| 8 C. B. F. Millar. | \| | 15 Peter M. Brodie. |
| 9 Ruth J. D. Ritchie. | \| | 16 David L. M. Tod. |

Summer Term.*First-Class Certificates.*

- | | | |
|--------------------------|--|--------------------------|
| 1 Laura M. Ligertwood. | \| | 4 E. K. Roy Thomas. |
| 2 Joseph H. Fairweather. | \| | 5 Dorothy A. D. Cropper. |
| 3 Isabella A. Gillespie. | \| | 6 Ruth M. Monro. |

Second-Class Certificates.

- | | | |
|-------------------|--|---------------------|
| 7 E. E. Caudlish. | \| | 8 J. E. Fletcher. |
|  | \| | 9 Edward A. Wilson. |

WILLIAM GEORGE SYM, M.D., *Lecturer.*

DISEASES OF THE LARYNX, EAR, AND NOSE.

Autumn Term.

First-Class Certificates.

- | | |
|-------------------------|--------------------------|
| 1 E. Grace Wilkes. | 10 { J. C. Rabie. |
| 2 Thomas Sprunt. | 10 { Duncan F. Yuille. |
| 3 I. Maclaren Thompson. | 12 { J. A. L. Loudon. |
| 4 { Jack Smith. | 12 { Marguerite Stewart. |
| 4 { Annie M. Roxburgh. | 12 { A. T. Harris. |
| 6 { C. W. Rubridge. | 15 { Jean S. McPhail. |
| 6 { Roberta T. Rankin. | 15 { A. S. Plowman. |
| 8 { A. R. Murray. | 15 { Alice B. S. Smith. |
| 8 { Helen M. Russell. | 15 { Louie A. Rubridge. |

Second-Class Certificates.

- | | |
|-----------------------------|---------------------------|
| 19 { Ruth J. D. Ritchie. | 26 { George A. Sinclair. |
| 19 { E. Fleming Griffin. | 26 { Helena J. Robertson. |
| 21 { Isabella M. M. Aitken. | 28 { Elspeth Gilmour. |
| 22 { Dorothy M. Somerville. | 28 { L. Teitelman. |
| 22 { Emily M. Mure. | 30 { Eileen S. P. Rowney. |
| 24 { D. A. Miller. | 30 { O. A. Omololu. |
| 24 { Millicent Fox. | 32 { Anna M. Williams. |
| | 33 { Marjorie Thomson. |

Spring Term.

First-Class Certificates.

- | | |
|------------------------|-----------------------------|
| 1 L. S. P. Davidson. | 16 { Edith K. Chandler. |
| 2 A. J. C. Hamilton. | 16 { P. A. Gillison. |
| 3 May L. Gilchrist. | 16 { H. H. Holden. |
| 4 { Helen Campbell. | 19 { H. J. C. Durward. |
| 4 { Jessie Gordon. | 19 { W. L. Hunter. |
| 4 { J. H. Fairweather. | 19 { A. G. Cochrane. |
| 7 { Harry Alexander. | 22 { W. A. Slack. |
| 7 { Aidan Campbell. | 22 { P. C. Wakefield. |
| 7 { J. H. Meiring. | 22 { Isabella A. Gillespie. |
| 10 { Harry Cohen. | 25 { D. J. V. Macaulay. |
| 10 { C. W. Patterson. | 25 { Wm. Eadie. |
| 10 { James Davidson. | 25 { V. C. Beckerleg. |
| 13 { H. W. Burne. | 25 { J. Lovins. |
| 13 { R. M. Burnie. | 25 { W. M. MacPhail. |
| 13 { Grace S. Oliver. | |

Second-Class Certificates.

- | | |
|---------------------------|-------------------------|
| 30 { Eleanor B. Kelly. | 34 { Henry R. Dodson. |
| 30 { Christina M. Hawick. | 34 { J. Henry Verwey. |
| 32 { Samuel Borochowitz. | 36 { Philip Barlow. |
| 32 { A. G. A. Edelston. | 36 { J. W. Eykelenboom. |

- | | |
|---------------------------|----------------------------|
| 38 { Ian MacIntyre. | 51 { David Rankin. |
| { Dorothy M. Gall. | 51 { Jean MacLennan. |
| { Evelyn Ewan. | 53 { W. B. E. Hughes. |
| 40 { Mabel Thomson. | 54 { E. L. Ewan. |
| { J. Goldberg. | 54 { Grace W. Eason. |
| { George S. Barnett. | 56 { Alice Gray. |
| 43 { J. R. Binnie. | 57 { D. Hardie Williamson. |
| { J. D. Stewart. | 57 { Arthur G. Cumming. |
| 46 { Michael S. Goldberg. | 59 { John Robinson. |
| 47 { J. H. Dick. | { D. A. Cadman. |
| { Winsome B. Grantham. | 61 { Fred H. Reynolds. |
| 48 { Arthur W. P. Haine. | 62 { A. C. Lornie. |
| { Chas. E. Scott. | { P. C. du Toit. |

Summer Term.*First-Class Certificates.*

- | | |
|-------------------------|--------------------|
| 1 { Agnes R. Macgregor. | 6 { J. P. Leckie. |
| 2 { John R. Hope. | 7 { P. R. R. Todd. |
| 3 { Janet Grant. | { A. M. Simson. |
| 3 { Alexander Dower. | 9 { A. M. Macgown. |
| 5 { A. Sheila MacLeod. | { A. Lee M'Gregor. |
| 5 { Dorothy M. Smith. | |

Second-Class Certificates.

- | | |
|---------------------------|---------------------------|
| 12 { Henry Mackay. | 22 { R. J. O. Taylor. |
| { E. Isserow. | 23 { Evan Moir Byres. |
| 14 { Ronald M. D. Cairns. | { Winifred M'Cræ. |
| 15 { Sydney S. Sumner. | 25 { Jean R. Maclean. |
| 16 { James M'Conchie. | 26 { Coenraad L. Pieters. |
| 17 { T. E. Hastings. | 27 { M. M. M'Dowall. |
| 18 { Robert Jackson. | 28 { Ernest H. Connell. |
| 19 { W. P. Petrie. | 29 { Christine Mitcheson. |
| 20 { J. P. Immelman. | 30 { Sydney Rodriguez. |
| 21 { A. D. M. Young. | 31 { A. G. M'Clellan. |

A. LOGAN TURNER, M.D., *Lecturer.***DISEASES OF THE LARYNX, EAR, AND NOSE.****Autumn Term.***First-Class Certificates (in alphabetical order).*

- | | |
|-------------------|---------------------------|
| Dorothy Court. | Elizabeth S. Thomson. |
| A. Ralph Erskine. | D. L. M. Tod, M.A., B.Sc. |
| S. Leven. | J. M. Young. |
| Marion E. Reed. | |

Second-Class Certificates (in alphabetical order).

J. M. Bosman.	D. Gordon Robertson.
Cecil C. Brown.	C. A. Robson.
J. G. Lyon Brown.	L. Siff.
Thomas Draper.	Helen C. Spencer.
Reginald Noel Johnston.	Val A. Stookes.
A. R. MacLean.	Jenny R. Tait.
Alex. M. MacRae.	R. Boog Watson.
James Reid.	Christine V. D. Willway.
C Barclay Reekie.	

Summer Term.*First-Class Certificates (in alphabetical order).*

William Isbister.	Henry Thomson.
C. Millar.	Hugh Thomson.
Margaret Proudfoot.	

Second-Class Certificates (in alphabetical order).

E. L. Grassick.	F. A. Meine.
Marjorie Kerr.	D. S. Morrison.
Isabel Macfie.	Jean Murray.
Flora MacDonald.	Q. M. Musa.
R. M. M. McGarrod.	C. S. G. Pillae.
Jean S. B. MacNeil.	G. R. Scarff.
Victor George Massie.	

J. MALCOLM FARQUHARSON, M.B., *Lecturer.***DISEASES OF THE SKIN.****Spring Term.***First-Class Certificates.*

1 A. Mildred Macgoun.	3 { A. Shiela MacLeod.
2 Margaret M'Dowall.	{ Marjorie C. Kerr.

Second-Class Certificates.

5 Jean M'Neil.	16 { Isobel Macfie.
6 { Margaret Caskie.	{ Henry Mackay.
{ A. W. Davison.	{ W. Grassick.
8 { Dorothy Smith.	19 { Agnes Macgregor.
{ James M'Conchie.	{ John Learmont.
10 { Janet Grant.	{ C. F. Beyers.
{ E. Isserow.	21 { F. Krone.
12 { Alex. Joe.	{ Robert Jackson.
{ Christine Mitcheson.	{ S. S. Sumner.
14 James Young.	{ Florence M'Kenzie.
15 T. R. R. Todd.	25 { Jean Murray.
	{ J. P. Immelman.

- 28 { E. Connel.
W. Petrie.
J. P. Leckie.
R. M'Garrol.
32 { Jean Maclean.
Flora Macdonald.

- 34 G. Roderiquez.
35 Margaret Lilley.
36 A. Ralph Erskine.
37 C. Pieters.
38 Margaret Proudfoot.

NORMAN WALKER, M.D.,
F. GARDINER, M.D.,
Lecturers.

DISEASES OF THE SKIN.

Summer Term.

First-Class Certificates.

- | | |
|--|---|
| 1 { Helen Russell, Scotland.
(Mrs) Margaret T. Rutherford,
Scotland. | 7 May Roxburgh, Scotland. |
| 3 { Cornelia J. Cross, South Africa.
Jenny Tait, Scotland. | 8 { E. Grace Wilkes, England.
Marguerite Stewart, Scotland.
E. J. Haine, England. |
| 5 Elspeth Hunter, Scotland. | 11 { Doris M. Gibson, England.
J. S. Macbeth, Scotland. |
| 6 Sarah B. Walker, Scotland. | |

Second-Class Certificates.

- | | |
|--|---|
| 13 R. T. Rankin, Scotland. | 22 { Helena Robertson, Scotland.
Anna Williams, Scotland.
Dorothy Somerville, Scotland. |
| 14 { Helen Steel, Scotland.
Ruth Ritchie. | 25 M. S. M'Gregor, Scotland. |
| 16 Elspeth Gilmour, England. | 26 { Helen Spencer, England.
Eileen Rowney, England. |
| 17 { Christina Wellway, England.
(Mrs) J. Wood, Scotland. | 28 { Louie Rubidge, S. Africa.
Jean M'Lennan, Scotland. |
| 19 { Alice Smith, Scotland.
H. E. Schultz, S. Africa.
Norris Giblin, Tasmania. | 30 E. M. Muire, Scotland. |
| | 31 M. N. Sanyal, India. |
| | 32 Donald Mackay, Scotland. |

FREDERICK GARDINER, M.D., B.Sc., *Lecturer.*

DISEASES OF TROPICAL CLIMATES.

Autumn Term.

First-Class Certificate.

- 1 Charles A. Whyte (L.R.C.P.), Scotland.

Second-Class Certificate.

- 2 Alex. Bremner, M.C., Capt. R.A.M.C., Scotland.

D. G. MARSHALL, M.B., Lt.-Col. I.M.S., *Lecturer.*

FACULTY OF MUSIC.

HARMONY (First Year).

Honourable Mention.

A. Muriel Philip.

MUSICAL FORM.

Honourable Mention.

Charles W. Prentice.

HISTORY OF MUSIC.

Honours Certificate.

Lily Boyes.

EAR TESTS.

Honourable Mention.

Lily Boyes.

DONALD F. TOVEY, B.A., *Professor.*

EXAMINATIONS FOR BURSARIES IN ARTS.

ORDERS OF MERIT.

JUNE 1919.

STUDENTS ENTERING FIRST SESSION.

A.—General Bursary List.

(*Subjects of Examination*—Latin, Greek, Mathematics, French, German, English, History, Italian, Spanish, Celtic, and Natural Science—(Natural Philosophy, Chemistry, Botany, and Geography). Candidates may take up four different subjects, but must select at least two from the following list of four alternatives:—1. Latin; 2. Greek; 3. Mathematics; 4. French or German.)

- | | |
|---|---|
| John Williamson, Edinburgh Academy. | James B. Thomson, George Watson's College. |
| Archibald H. Campbell, George Watson's College. | Hugh Harper, Broughton Junior Students' Centre. |
| Ann J. Gray, Ayr Academy. | 15 Francis W. Oakley, Dundee High School. |
| Marion C. Gray, Ayr Academy. | Isabella M. Ross, George Watson's Ladies' College. |
| 5 William A. M'Kerrow, Dumfries Academy. | Oswald J. Walker, George Heriot's School. |
| David L. Watson, George Heriot's School. | 15 Sidney E. Croskery, George Watson's Ladies' College. |
| Ralph E. Gibson, George Watson's College. | Davina M. Dingwall, Kirkcaldy High School. |
| David A. M'Crea, Kirkcaldy High School. | 20 William West, George Heriot's School. |
| Isabel Murray, Edinburgh Ladies' College. | Douglas M. Logan, George Watson's College. |
| 10 Agnes F. M'Donald, Perth Academy. | Thomas Watt, George Watson's College. |
| Joanna I. Mason, Dunfermline High School. | Henry W. Guthrie, Broughton Higher Grade School. |
| Alexander Young, George Heriot's School. | Dora Fleming, Blairgowrie Higher Grade School. |

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|--|--|
| <p>25 { Georgina M'Lean, Kelso High School.
 { Ellen Reay, Kelso High School.
 { William Marshall, George Watson's College.
 { William M. Day, Kirkcaldy High School.
 { Jessie D. Swinney, Berwickshire High School.
 30 { Lena M. Small, Trinity Academy.
 { John S. C. Brown, Musselburgh Grammar School.
 { Roger H. Heyworth, Dollar Academy.
 { Alexander Neill, Broughton Junior Students' Centre.
 { Hector B. Gooderham, George Heriot's School.
 35 { Edwin Smart, Brechin High School.
 { Robert J. Smith, Ayr Academy.
 { Alexander V. Stevenson, Royal High School.
 { Robert A. Barclay, George Heriot's School.
 { Charles E. R. Bruce, Dundee High School.
 40 { George Inglis, Royal High School.</p> | <p>Katharine J. Matheson, Ministers' Daughters' College.
 { Richard J. Hay, Stranraer High School.
 { Janet Wilson, Dunfermline High School.
 { Agnes M. Gilmour, Ayr Academy.
 45 { Thomas P. M'Donald, George Watson's College.
 { Helen F. Falconer, Harris Academy, Dundee.
 { John N. W. Hunter, George Heriot's School.
 { Robert Scott, Kirkcaldy High School.
 { Ian C. Somerville, Royal High School.
 50 { Christina W. Rattray, Kelso High School.
 { Allan G. Rodger, Kirkcaldy High School.
 { Hilda S. Calver, St Margaret's Ladies' College.
 { Margaret H. Scott, Perth Academy.</p> |
|--|--|

B.—John Welsh Classical Bursary.

(Subjects of Examination—English, Latin, and Greek.)

- | | |
|---|---|
| <p>Archibald H. Campbell, George Watson's College.
 John Williamson, Edinburgh Academy.
 William A. M'Kerrow, Dumfries Academy.
 David A. M'Crea, Kirkcaldy High School.
 5 { Agnes F. M'Donald, Perth Academy.
 { William Marshall, George Watson's College.
 { Roger H. Heyworth, Dollar Academy.</p> | <p>William M. Day, Kirkcaldy High School.
 { George Inglis, Royal High School.
 { Thomas P. M'Donald, George Watson's College.
 10 { Francis W. Oakley, Dundee High School.
 { Hugh Bradford, Kelso High School.
 { Alastair W. Hardie, George Watson's College.
 { Katharine J. Matheson, Ministers' Daughters' College.</p> |
|---|---|

C.—John Welsh Mathematical Bursary.*(Subject of Examination—Mathematics, especially pure Geometry.)*

David L. Watson, George	Ian C. Somerville, Royal High
Heriot's School.	School.
John Williamson, Edinburgh	Charles E. R. Bruce, Dundee
Academy.	High School.
Isabel Murray, Edinburgh	Alexander Neill, Broughton
Ladies' College.	Junior Students' Centre.
Archibald H. Campbell, George	Ralph E. Gibson, George
Watson's College.	Watson's College.
5 Alexander Young, George	10 James B. Thomson, George
Heriot's School.	Watson's College.

RENTON BURSARY.*(Subjects of Examination—English and Mathematics.)*

David L. Watson.	Isabella M. Ross.
Hugh Harper.	Henry W. Guthrie.
Alexander Neill.	John Roy.

BENEFACTORS OF THE UNIVERSITY.

THE Revenues of the University were formerly scanty and very inadequate for the encouragement of the higher education and learning in the Scottish metropolis. Scholarships and Fellowships were unknown prior to those recently instituted, and the emoluments of several of the Chairs are still greatly inferior to those in many other Universities.

During the early period of its history, the University received a considerable number of small donations and bequests, chiefly for Bursaries. Notices of these will be found in the preceding pages, in the Histories of the University by Bower, Dalzel, and Grant, and in the Report of the Universities' Commissioners in 1830. A list of early Benefactors to the Library is given at p. 57.

By Act 1 and 2 Vict., cap. 55, the various sums of money mortified in the hands of the Town Council for the support of the University, amounting to £13,119, were discharged, and an annual payment of £2500 (since reduced to £2170) secured in terms of "The Edinburgh Corporation Stock Act, 1894," over the Common Good of the City, etc.

During last century, especially since 1860, many donations and bequests have been made by Benefactors of the University for the foundation of Fellowships, Scholarships, and Bursaries, for the endowment of Chairs, and for the erection of the New Buildings, including the "M'Ewan Hall," the "John Usher Institute of Public Health," and the "Hughes-Bennett Physiological Laboratory." The new buildings for the "Engineering Department" and the "Natural Philosophy Department" at High School Yards are now complete, and in full occupation. A complete description of the Engineering buildings is given

in Appendix I., Calendar 1906-7, and a description of the Natural Philosophy buildings is given in Appendix I., Calendar 1907-8. The University, however, in many respects, is still very inadequately endowed, and much requires to be done that it may not fall behind the requirements of the age. Intending Benefactors are respectfully reminded that additional CHAIRS, LECTURESHIPS, LABORATORY EQUIPMENTS, LIBRARY ENDOWMENTS, FELLOWSHIPS, SCHOLARSHIPS, BURSARIES, and FUNDS for RESEARCH, for GENERAL MAINTENANCE, and for BUILDINGS, are urgently required.

The names of Benefactors, if so desired, may be connected with the Benefactions they bestow. Such Benefactions may simply be conveyed to the "University of Edinburgh." All necessary information will be gladly afforded by the Principal, the Secretary of the University Court, the Secretary of Senatus, the Deans of the Faculties, or the University Librarian.

The following list includes the chief Benefactors of recent years, together with the purposes of their benefactions:—

WILLIAM M'EWAN, Esq., LL.D., M.P., donor of the M'Ewan Hall, at a cost (including balance paid for Site and Grand Organ) of about £115,000.

ADAM GIFFORD, Senator of the College of Justice, bequeathed £25,000 for the foundation of a Lectureship for promoting, advancing, teaching, and diffusing the study of Natural Theology in the widest sense of that term.

JOHN FULTON, Esq., bequeathed £3000 to General University Fund, the greater part of which has been devoted to the equipment of the new Engineering Laboratory, called the "Fulton Laboratory."

Miss ELIZABETH STEVEN, of Bellahouston—Founder of the Steven Lectureship in connection with the Chair of Agriculture.

ALEXANDER LOW BRUCE, Esq., Edinburgh,
£5000

Mrs A. L. BRUCE, £500

Miss A. BLACKWOOD BRUCE, £500

Other members of the Bruce family, £163

Sir JOHN USHER, of Norton, £8000

WILLIAM YOUNGER & Co., £1000

Founders of "the Bruce and John Usher Chair of Public Health" in the Faculties of Medicine and Science.

BENEFACTION by Sir JOHN USHER of Norton of upwards of £21,000, for the building and equipment of a Laboratory and Class-Rooms in connection with Chair of Public Health.

Sir WILLIAM FRASER, K.C.B., LL.D.—

1. For foundation of Chair or Professorship to be called "The Sir William Fraser Professorship of Ancient History and Palæography," £25,000.
2. For Library purposes, £10,000.
3. Half of Residue of Estate for general purposes, but especially for Foundation of Bursaries, etc., in connection with History, or for promoting Historical Research, expected to amount to about £15,000.

JAMES RITCHIE, Esq., bequeathed £3000 for University purposes.

HIGHLAND AND AGRICULTURAL SOCIETY, £1071, 6s. 7d., and ROYAL SCOTTISH ARBORICULTURAL SOCIETY, £584, 3s. 10d.—for further Endowment of a Chair or Lectureship in Forestry.

£50 from C. JUNGHEHN, Rangoon, towards foundation of Chair of Forestry.

The Hon. JOHN MACGREGOR, Burmah, £500 towards endowment of Chair of Forestry.

Miss ELEANOR A. ORMEROD, F.E.S., LL.D., £5000 and Collection of Entomological Diagrams prepared by her late sister.

Rev. Dr JOHN WALKER, formerly Professor of Natural History in the University, bequeathed £991 for University Library and College Museum.

Mrs HARRIET G. COX, Gorgie, £2800 for the building of "The Hughes Bennett Laboratory for Physiological Research."

ÆNEAS J. G. MACKAY, K.C., LL.D., £2000, the interest to be applied to the Historical Department.

Messrs R. and J. GARTON, Newton-le-Willows, Lancashire, endowed the "Garton Lectures," on Colonial and Indian Agriculture, with a sum of £150 a year.

Miss JOANNA S. S. GIBSON, Edinburgh, £500 for the formation of a Library of German literature.

Gift of £2,000,000 by Mr ANDREW CARNEGIE, of New York, and of Skibo, in the County of Sutherland, to the four Scottish Universities, the interest to be applied in part to the payment of the class fees of students of Scottish birth or extraction, or who have given two years' attendance after the age of fourteen at Scottish schools; and partly to the better equipment of the Universities.

Gift by Principal Sir WILLIAM TURNER, K.C.B., etc., of a large collection of anatomical diagrams, drawings, skeletons, and preparations, several microscopes, and other instruments, and a number of books.

Gift by Sir DONALD CURRIE, G.C.M.G., of Garth and Glenlyon, of £25,000, of which the interest of £20,000 is to be applied to the remuneration of Lecturers such as the authorities of the University may from time to time appoint. The University Court, being desirous of permanently associating his name with the fund, have resolved to designate it "The Sir Donald Currie Lectureship Endowment Fund."

Other Contributions to the Extension Scheme have also been intimated, to the extent of £10,000.

Grant by the Trustees of the late Mr GEORGE COMBE of £250 a year for five years towards the salary of the lecturer on Psychology, together with a donation of £300 for the purchase of apparatus and the equipment of a laboratory.

Endowment by Sir JOHN JACKSON, Civil Engineer, London, yielding about £200 per annum, which he desires to be designated a Professor Tait's Memorial Fund for the purpose of encouragement of Physical Research in the University of Edinburgh.

Bequest by the late Mr JAMES MONCRIEFF ARNOTT of Chapel, Fife, and by his daughter, the late Miss JANE MONCRIEFF ARNOTT, of a portion of the residue of their estate, to be designated "The Moncrieff Arnott Fund," to be applied to such uses and purposes of or in connection with the University as to the University Court shall seem proper.

Donation by the Right Hon. WILLIAM M'EWAN, formerly Member of Parliament for the Central Division of the City of Edinburgh, of a sum of £6450 for establishing a Fund to be called "The M'Ewan Hall Endowment Fund," the annual income of which shall be applied towards meeting payment of the ordinary annual expenditure incurred in connection with the maintenance and repair of the said Hall, and for no other purpose.

A sum of £1500 from the EDINBURGH UNIVERSITY ENDOWMENT ASSOCIATION, to be appropriated and paid in equal proportions towards the endowment of the proposed Chairs of French and German in the University—the annual income arising on said sum of £1500 to be added to capital, except to the extent of £10, 10s., to be applied to continuing the present prizes in French and German hitherto provided by the Association.

A further grant of £400 from the Combe Trustees for the purchase of apparatus in connection with the George Combe Lectureship in General and Experimental Psychology.

A sum of £5000 from Mr CHARLES BRUCE, 3 Melville Crescent, to found and endow a Lectureship on Banking, the Lectureship to be called "The Charles Bruce Lectureship on Banking."

Transference to the University Court by the Acting Committee for the Edinburgh University Improvement and Expansion Scheme of the Investments and Funds. These funds, amounting to £21,444, 17s. 5d.—exclusive of the Tait Memorial Fund—fall to be held for the purposes of the Sir Donald Currie Lectureships Endowment Fund. The Tait Memorial Fund (amounting to £2258, 10s. 1d.) is to be dealt with so that "the annual income shall be devoted to the equipment and maintenance of the Physical Laboratory, and to the promotion of the object which Professor Tait had so much at heart—the cultivation in students of the spirit and power of research."

Gift by Emeritus Professor CHIENE of his Surgical Museum, diagrams, and Laboratory apparatus.

- Bequest of £2500 by the late JAMES CLASON-HARVIE of Brownlee, Lanarkshire, towards the foundation and endowment of Chairs in French Language and Literature and in German Language and Literature.
- The moiety of her Trust Estate which Miss MARY DICK bequeathed to found a Professorship in the University either of Comparative Anatomy or Surgical Anatomy in memory of the late Dr John Barclay and Professor John Goodsir.
- Bequest by the late Miss MARGARET WARDLAW of £2000 (to be supplemented by other sums), to be called, in memory of her brother, "The D. R. Wardlaw Memorial Bequest," for behoof of indigent and deserving students of the University who may be temporarily incapacitated from pursuing their studies.
- Prizes of a Gold Medal and a sum of £10, and a Silver Medal and a sum of £5, to be given annually by Mr HENRY S. WELLCOME of London, for the purpose of encouraging original research in the History of Medicine.
- Gift by Professor GEIKIE of the Geological Class Library of about 2850 volumes, formed by himself and his brother, Sir Archibald Geikie.
- Bequest by the late Lord STORMONTH DARLING of the sum of £500 to the General University Fund, "in recognition of his long connection with the University as student, representative in Parliament, and member of the governing body."
- Grant by the Board of Agriculture for Scotland of £200 towards the provision of facilities for animal breeding on the farm of Fairsacks, recently acquired by the University.
- Gifts by Emeritus Professor CRUM BROWN: (1) over 2000 specimens of pure chemical substances; (2) his collection of minerals, diagrams, and models, with a variety of teaching apparatus, etc.; (3) to the Library of the Chemistry Department, two sets of publications—*Annalen der Physik*, and *Beiblätter zu den Annalen der Physik*.
- Bequest by the late Mr JAMES CLASON-HARVIE through his Trustees, of the sum of £800, free of legacy duty, towards the foundation and endowment of a Chair in French Language and Literature, and in German Language and Literature, the money to be appropriated by the University Court so as to equalise, as far as possible, any existing or future endowment of these respective Chairs.
- Gift by the Hon. Mrs GREVILLE of the private residence of her father, Rt. Hon. William McEwan, in Edinburgh.
- Bequest by the late Rev. GEORGE M'GUFFIE, F.S.A. Scot., of £2000, for the foundation of a Bursary to be called "The Archibald or M'Guffie Bursary."
- Bequest by the late Dr THOMAS CLIFFORD DAVIES, of Bury, Lancashire, of £1000, to be applied to such purposes in connection with the University as the University Court may think fit.
- Bequest by the late Mrs ISABEL WILSON CAMPBELL of Glen Afric, Johannesburg, of the residue of her estate (amounting to about £780) to found the "Robert Mackenzie Scholarship," for the benefit of students belonging to Sutherlandshire.

- Bequests of the "James Cropper Scholarship Fund" and the "Waldie Griffith Scholarship Fund" for the Medical Education of Women in Edinburgh: to be administered by the University of Edinburgh.
- Gift by Mr W. W. ROUSE BALL, of Trinity College, Cambridge, of a sum of fifty guineas to provide a medal in connection with Mathematics, to be known as the "Napier Medal."
- Bequest by the late Miss MARION SUTHERLAND of the residue of her estate (probably amounting to at least £3000) to the University Court for behoof of the General Fund of the University.
- Bequests by the late Principal Sir WILLIAM TURNER: (1) The marble bust of himself, by Mr Herbert Hampton; (2) his books on Anatomy, Human and Comparative, and Anthropology, to form a part of the Library in the Anatomical Department; (3) a sketch portrait of the Right Hon. Arthur J. Balfour, Chancellor of the University, by Sir George Reid.
- Bequest by the late Mr MUIRHEAD-AITKEN of a legacy to the Trustees of Bathgate Academy, for the purpose of founding a Bursary at the University of Edinburgh, to bear the name of the "Muirhead-Aitken Bursary."
- The balance of the funds left over on the winding-up of the Scottish Association for the Medical Education of Women, given to the University Court, for the foundation of an annual Prize for a woman student qualifying in medicine.
- Gifts by Miss HELEN DARBISHIRE to the Biological Department of microscopic slides, mounted specimens, books and pamphlets, etc., which belonged to her late brother, Mr A. D. Darbshire, M.A., Lecturer on Genetics.
- The sum of £2700 from the estate of the late General WILLIAM LANG, for the endowment of "The Shaw Macfie Lang Fellowship."
- Gift by Mr WILLIAM LUCAS, of Melbourne, Australia, of £100, in memory of his son, the late Lieut. Norman Lucas, M.A., B.Sc., to institute the "Norman Lucas Medal or Prize" to be given for either Chemistry or Natural Philosophy.
- The sum of £2000 to account of the sum of £4000 which had been offered to the University by friends of women's education, to help to meet expenses incurred in connection with the introduction of women students to classes in the Faculty of Medicine.
- Bequest by the late Dr GRACE R. CADELL to the University, jointly with the Edinburgh Hospital for Women and Children and Hospice, of the residue of her estate: the moiety falling to the University, being "to help in the medical education of women in that University."
- Gift by Professor Sir THOMAS R. FRASER, for the use of workers in the Department of Materia Medica, of the bound volumes of certain publications relating to materia medica, pharmacology, and therapeutics.
- Funds amounting to £200, collected from friends by Professor T. Hudson Beare, for the purpose of purchasing and presenting to the Entomological Department of the University of Edinburgh the Waterhouse Collection of British Coleoptera.

DONATIONS AND REQUESTS DURING 1918-19.

Treasury Grant of £6500 for the University, out of the sum provided under the Estimates for the year 1918-19, in respect of losses caused by the war.

Treasury Grant of £7000 from the Development Fund, towards the Endowment of a Chair of Forestry.

Increase in the Annual Treasury Grant, and a special Non-recurrent Treasury Grant for the financial year 1919-20, in partial relief of losses caused by the war.

Gift of £15,000 for the foundation of a Chair in Accounting and Business Method, from members of the Edinburgh Chamber of Commerce, the Edinburgh Merchant Company, Leith Chamber of Commerce, Leith Shipowners' Society, the Society of Accountants in Edinburgh, and the Institute of Bankers in Scotland; also, from the same source, a gift of £15,000 for the endowment of a Lectureship in the Organisation of Industry and Commerce.

The sum of £10,000 from the Royal Edinburgh Asylum for the Insane, towards the endowment of a Chair of Mental Diseases.

Gift by an anonymous donor of £10,000, to further progress in the study of some subject related to Surgery, by endowing a Lectureship in Orthopaedics.

Subscription, to be continued annually for a term of years, by an anonymous donor, towards the endowment of a Tait Chair in Mathematical Physics.

Gift to the University, by the War Trophies Committee, of a German Field Gun, "in order to recall to future generations the part played by both officers and cadets of the E.U. Contingent of the O.T.C. in preparing candidates for commissions during the Great War."

Gifts to the Geology Department of valuable collections of minerals, rocks, and fossils, by Mr A. S. Stenhouse, F.G.S., Leith, and Major Walter Bisset, Skegness.

Endowment, for a Gold Medal in connection with the Ettles Scholarship in Medicine, by Dr Robert Murray Leslie (Ettles Scholar in 1892), in memory of his mother: to be known as the Leslie Gold Medal in Medicine.

Bequest by the late Professor Hume Brown to the University of all his books and facsimiles dealing with Palæography, and the death mask of Goethe, as also a sum of £1500 to endow a prize in Scottish History.

Gift by Mrs Claude Conder of the books on Archæology and the Study of Languages of her late husband, Colonel Claude Reignier Conder, an honorary graduate of the University.

Gift from Miss R. Mary Barclay, for the purposes of the Library.

REPORT ON THE STATE OF THE FINANCES OF THE UNIVERSITY OF EDINBURGH

Made by the University Court of the said University to the Secretary for Scotland, in terms of the 30th section of the Act 52 and 53 Vict., cap. 55, entitled "The Universities (Scotland) Act, 1889."

For the Year to 31st August 1918

THE UNIVERSITY COURT beg to make the following Report on the State of the Finances of the University for the year to 31st August 1918, being the twenty-eighth year of their administration since "The Universities (Scotland) Act, 1889," came into operation

CAPITAL.

The Capital of the University at the beginning and end of the financial year, exclusive of the Buildings and Furnishings, and of the Athletic Field, is shown in the following Statement :—

I. GENERAL UNIVERSITY FUND (no change has taken place during the year)	Capital at close of last Report.	Capital at close of this Report.
	£74,000 0 0	£74,000 0 0
II. SALARIES ACCOUNT AND FEE FUND ACCOUNT (CAPITAL INCLUDED IN BRANCHES IV. AND V. BELOW).		
III. PENSION FUND		
Fund at close of last Report	£20,342 4 11	20,342 4 11 21,812 5 7
Add Unexpended Revenue on year	1,470 0 8	
	<u>£21,812 5 7</u>	
Carry forward,	<u>£94,342 4 11</u>	£95,812 5 7

	Brought forward,	Capital at close of last Report.	Capital at close of this Report.
IV. FUNDS PARTLY OR WHOLLY UNAPPROPRI- ATED TO PARTICULAR PURPOSES . . .		£94,342 4 11	£95,812 5 7
Funds at close of last Report . £161,981 1 6		161,981 1 6	209,832 18 9

Payment further to account of
Bequest by the late Daniel
Mackintosh Forbes, Esq., for
General Educational Pur-
poses of the University . . . 57,904 14 5

Balance of Fund being raised
by Mrs Chalmers Watson,
M.D., and Miss S. E. S.
Mair, in recognition of pro-
mised extension to Women
Medical Students of full facili-
ties for University Educa-
tion, 150 0 0

£220,035 15 11

Deduct the following Funds
devoted to the endowment of
the Christison Chair in Thera-
peutics, and transferred to
Head V. below:—Alexander
Gibson Bequest, £2000,
7s. 2d.; Balance of Miss
Moncrieff Arnott's Bequest,
£7300; Clifford Davies
Fund, £902, 10s. 10,202 17 2

£209,832 18 9

V. FUNDS APPROPRIATED TO PARTICULAR PURPOSES:—

(a) Professorships, Lectureships, and Teaching
Foundations 248,840 8 4 298,743 16 11

Carry forward, £505,163 14 9 £604,389 1 3

				Capital at close of last Report.	Capital at close of this Report.
	Brought forward,	£505,163	14	9	604,389 1 3
V. FUNDS APPROPRIATED TO PARTICULAR PURPOSES (<i>continued</i>):—					
Funds at close of last Report.	£248,840	8	4		
Add gift by Lord Abercromby in anticipation of £17,000 settled by his lordship for the purpose of founding a Chair in Prehistoric Archaeology, payable at his death, the understanding being that the University Court may make use of this gift of £5000 for its own purposes, but must make the amount good on the foundation of the Chair .	5,000	0	0		
Grant from the Carnegie Trust towards the endowment of a Chair in French Language and Literature .	6,000	0	0		
Do., of a Chair in Medical Chemistry	15,500	0	0		
Funds amounting to £18,392, 19s. 3d. handed over by the Royal Victoria Hospital Trustees for the foundation of a Chair in Tuberculosis and the expenses connected therewith, of which £11,400 has, for convenience, been set apart under this sub-head to provide the Professor's salary, and £6992, 19s. 3d. under sub-head (b) as a Fund for Expenses, but the salary will, if required, be the first charge on the total endowment	11,400	0	0		
Carry forward,	£286,740	8	4	£505,163	14 9 604,389 1 3

					Capital at close of last Report.			Capital at close of this Report.		
Brought forward,	£286,740	8	4	£505,163	14	9	£604,389	1	3	

V. FUNDS APPROPRIATED TO PARTICULAR PURPOSES (*cont.*):—

Funds devoted by the University Court to the endowment of the Christison Chair in Therapeutics, transferred from Head IV. above:—

Alexander Gibson's Bequest	2,000	7	2
Balance of Miss Moncrieff			
Arnot's Bequest . . .	7,300	0	0
Clifford Davies Fund . .	902	10	0
	<u>£296,943</u>	<u>5</u>	<u>6</u>

Deduct Scottish School of Tropical Medicine Fund, transferred to Head VII. below, £5, 16s. 3d., and part of the French and German Lectureships Fund devoted to Class Prizes, transferred to sub-head below, £304, 10s.

310 6 3

	<u>£296,632</u>	<u>19</u>	<u>3</u>
Surplus Revenue	2,110	17	8

£298,743 16 11

(b) Other purposes 30,991 18 4 38,037 4 10

Funds at close of last Report £30,991 18 4

Add part of French and German Lectureships Fund devoted to Class Prizes, transferred from sub-head (a) above.

304 10 0

Funds handed over by the Royal Victoria Hospital Trustees for the endowment of a Chair in Tuberculosis, of which there has been set apart for expenses connected therewith.

6,992 19 3

Carry forward, £38,289 7 7 £536,155 13 1 £642,426 6 1

				Capital at close of last Report.			Capital at close of this Report.		
Brought forward,	£38,289	7	7	£536,155	13	1	£642,426	6	1
V. FUNDS APPROPRIATED TO PARTICULAR PURPOSES: (cont.) :—									
Surplus Revenue	1,233	4	7						
	£39,522	12	2						
Less drawn from the Library Catalogue Suspense Account £1442, 10s. 9d., and the Library Suspense Account £42, 16s. 7d. . . .	1,485	7	4						
	£38,037	4	10						
VI. ESKBANK FEU-DUTIES—CASUALTY FUND .									
	1,284	3	7				1,303	4	9
Fund at close of last Report .	£1,284	3	7						
Add Surplus Revenue	19	1	2						
	£1,303	4	9						
VII. FUNDS FOR BURSARIES, SCHOLARSHIPS, FELLOWSHIPS, AND PRIZES									
	450,726	19	4				465,476	19	3
Funds at close of last Report .	£450,726	19	4						
Add Balance of Legacy by the late General William Lang, which had been life-rented since 1870 by a lady who died in 1916	2,790	2	0						
Gift by William Lucas, Esq., Melbourne, Australia, to found a Prize in memory of his son, the late Lieut. Norman Lucas. . . .	100	0	0						
Scottish School of Tropical Medicine Fund, transferred from Head V. above. . . .	5	16	3						
Carry forward,	£453,622	17	7	£988,166	16	0	£1,109,206	10	1

STATE OF FINANCES

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Brought forward £453,622 17 7 Capital at close of last Report. Capital at close of this Report.
 £988,166 16 0 £1,109,206 10 1

VII. FUNDS FOR BURSARIES, ETC.

(continued):—

Surplus Revenue 11,854 1 8
£465,476 19 3

Total Funds at close of last Report £988,166 16 0

Total Funds at close of this Report £1,109,206 10 1

These Funds are represented by the following:—

Investments and Balances in Bank:—

1. Heritable Securities	£473,077 13 7
2. Heritable Property	19,400 0 0
3. Feu-duties	11,923 18 7
4. Railway Debenture Stocks	113,670 8 4
5. Railway Ordinary, Preference, and Guaranteed Stocks	64,804 17 4
6. Government Stocks	224,280 5 8
7. Bank Stocks	5,162 5 4
8. Corporation Stocks	101,487 14 10
9. Canadian and American Investments	22,359 0 0
10. Miscellaneous Securities	15,360 15 0

£1,051,526 18 8

11. Uninvested and Floating Balances, chiefly in Bank Deposit

Receipts 42,589 19 3

£1,094,116 17 11

Add:—

Building Extension Debt Account £2,500 0 0

General Revenue and Expenditure Balance Account:—

Balance at close of last Report £15,267 15 2

Deficiency in General University Fund for year 1917-18,

page 820 3,821 17 0

£19,089 12 2

Less, Special Grant from Treasury towards loss of Revenue owing to the war

6,500 0 0

12,589 12 2

15,089 12 2

Total as above £1,109,206 10 1

THE REVENUE for the Year 1917-18,

stated under the heads prescribed by the Treasury, is as follows, the references being to the branches of the Appendix hereto :—

I. FEES :—

1. Class Fees, II. 2, viz. :—

(1) Fees falling into the Fee Fund :—

(a) Applied to Salaries of Professors, through

Fee Fund	£20,894 1 0
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(b) Applied to General Purposes, I. 1 (f)	3,107 18 0
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	£24,001 19 0
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(2) Fees not falling into the Fee Fund collected for Faculties of Divinity and Music, II. 3 :—

Professors	£115 10 0
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Lecturer on Music	23 2 0
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	138 12 0
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	£24,140 11 0
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2. Matriculation and Entrance Fees, I. 1 (a), (b)	2,148 7 0
---	-----------

3. Examination and other Fees, I. 1 (c), (d), (e)	6,270 16 0
---	------------

	£32,559 14 0
--	--------------

II. INCOME FROM ENDOWMENTS :—

1. Appropriated to Particular Purposes, viz. :—

(1) Principalship, Professorships, Lectureships, and Teaching Foundations :—

(a) Paid through General University Fund,

I. 2 (a) (1)	£9,272 5 11
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(b) Paid through Salaries Account, II. 1	4,103 19 0
--	------------

	£13,376 4 11
--	--------------

(2) Other purposes, I. 2 (a) (2)	2,367 18 2
--	------------

2. Unappropriated I. 2 (b)	10,072 16 4
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	25,816 19 5
--	-------------

III. ANNUAL GRANTS FROM PRIVATE SOURCES, I. 3	2,106 6 0
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Carry forward to page 820	£60,482 19 5
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THE EXPENDITURE for the Year 1917-18,

stated under the heads prescribed by the Treasury, is as follows,
the references being to the branches of the Appendix hereto :—

I. ADMINISTRATION, I. 1 £7,355 10 10

II. SALARIES AND PENSIONS :—

1. Salaries, viz. :—

(1) Principal, I. 2 £2,120 0 0

(2) Professors :—

(a) Paid through General University Fund
Account, I. 2 £8,006 14 1

(b) Paid through Salaries Ac-
count, II. 1 9,738 19 0

(c) Paid through Fee Fund
Account, II. 2 20,894 1 0

(d) Paid from Fees drawn from
Faculties of Divinity and
Music, II. 3 115 10 0

38,755 4 1

(3) Lecturers :—

(a) Paid through General University Fund
Account, I. 7 £15,630 16 7

(b) Paid from Fees drawn for non-
qualifying Lectures, II. 3 23 2 0

15,653 18 7

(4) Assistants, I. 8 7,225 0 8

(5) Examiners, I. 9 2,010 0 10

65,764 4 2

2. Pensions :—

(a) Paid from General University Fund, I. 3 . £1,082 15 0

(b) Paid from Pension Fund, III. 4,224 11 8

5,307 6 8

Carry forward to page 821 . . . £78,427 1 8

The Revenue for the Year 1917-18—Continued.

Brought forward from page 818		£60,482	19	5
IV. LOCAL TAXATION GRANT, I. 4		10,800	0	0
V. PARLIAMENTARY GRANT (less £50 for King William III. Bursaries), I. 5		15,070	0	0
VI. TREASURY GRANT, I. 6 :—				
Grant for year 1917-18	£12,500	0	0	
Amounts reserved from Grants brought forward from last year	£149	6	6	
Less, carried forward to next year for purchase of Apparatus	83	0	11	
		66	5	7
		12,566	5	7
VII. SPECIAL TREASURY GRANT :—				
Special Grant towards loss of Revenue owing to the war, carried to General Revenue and Expenditure Balance Account in reduction of debit balance thereon	£6500	0	0	
VIII. OTHER INCOME :—				
(a) Library Subscriptions, Rents of M'Ewan Hall, Societies for use of Rooms, etc, I. 7	£76	7	0	
(b) Supplement from Income on Pension Fund, III.	694	12	4	
		770	19	4
		£99,690	4	4
Deficiency on year, page 817		3,821	17	0
		£103,512	1	4
IX. ESKBANK FEU-DUTIES—CASUALTY FUND, VII.		38	13	5
X. FUNDS FOR BURSARIES, SCHOLARSHIPS, FELLOWSHIPS, AND PRIZES, VI.		16,700	14	8
		£120,251	9	5

The Expenditure for the Year 1917-18—Continued.

Brought forward from page 819 . . . £78,427 1 8

III. MAINTENANCE OF BUILDINGS, SERVICE, ETC., I. 4:—

(a) Ordinary	£13,402 4 8	
(b) Extraordinary or non-recurrent	582 5 5	
		13,984 10 1

IV. CLASS, LABORATORY, AND MUSEUM EXPENSES, EQUIPMENT, ETC., I. 6:—

(a) Ordinary	£5,709 7 3	
(b) Extraordinary or non-recurrent	58 3 11	
		5,767 11 2

V. LIBRARY, I. 5:—

Ordinary	3,300 0 0
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VI. OTHER EXPENDITURE:—

(a) Medals and Prizes, I. 10	£34 10 0	
(b) Graduation Expenses, I. 11	229 10 9	
(c) Royal College of Physicians towards cost of maintenance of Laboratory, I. 12	200 0 0	
(d) Incidental Expenses and Grants, I. 12	98 17 0	
(e) Pension Fund—Surplus added to Fund, III.	1,470 0 8	
		2,032 18 5
		£103,512 1 4

VII. ESKBANK FEU-DUTIES—CASUALTY FUND, VII. £19 12 3

Surplus on year	19 1 2	
		38 13 5

VIII. FUNDS FOR BURSARIES, SCHOLARSHIPS,

FELLOWSHIPS, AND PRIZES, VI. . . £4,846 13 0

Surplus on year	11,854 1 8	
		16,700 14 8

£120,251 9 5

In the foregoing Report the Funds are stated exclusive of the Buildings of the University, the New Medical School, the Music Class-room, the McEwan Hall, the Usher Institute of Public Health, the Engineering and Physical Laboratories, the Agriculture, Forestry, and Entomology Laboratories, the Mathematical Department, the Principal's Official Residence, the house No. 25 Palmerston Place, the University Athletic Field and Pavilion, and also the Libraries, Museums, Furnishings and Equipment of the University, the values of which are not known. With these exceptions the Report embraces the whole Funds and the whole Revenue and Expenditure of the University for the year to 31st August 1918, so far as they are administered by the University Court.

Reported in name and by authority of the University Court of the University of Edinburgh.

JAMES WALKER,

Convener of Finance Committee, University Court.

L. J. GRANT,

Secretary of the University.

AUDITOR'S REPORT.

As Auditor appointed by the University Court of the University of Edinburgh, I have examined and audited the foregoing Report with relative Appendices, and I find that these are in all respects correct, and embrace a full Statement of the Revenue and Expenditure of the University administered by the University Court for the year to 31st August 1918, and also a correct Statement of the Funds under their charge at that date.

C. E. W. MACPHERSON,
Auditor.

6 NORTH ST DAVID STREET,
EDINBURGH, 14th March 1919.

APPENDIX I.

I. GENERAL UNIVERSITY FUND:—

REVENUE.

1. Fees:—

(a) Matriculation Fees	£2,128	7	0	
(b) Entrance Fees from Students not matriculated	20	0	0	
	<hr/>			
(c) Preliminary Examination Fees	£264	18	0	
(d) Graduation Fees:—				
(1) Arts	£746	19	6	
(2) Science	307	0	0	
(3) Medicine	4,676	16	6	
(4) Divinity	11	0	6	
(5) Law	20	9	6	
(6) Music	12	12	0	
	<hr/>			
	5,774	18	0	
(e) Fees of Registration of Members of General Council	231	0	0	
	<hr/>			
		6,270	16	0
(f) Surplus on Fee Fund, Branch II. 2		3,107	18	0
	<hr/>			
	£11,527	1	0	

2. Income from Endowments:—

(a) Appropriated to Particular Purposes, viz.:—

(1) Principalship, Professorships (not paid through Salaries Account), Lectureships, and Teaching Foundations:—

From the following sources:—

Branch IV.	£912	4	4
Branch V. (a)	6,384	7	1
Branch V. (b)	120	0	0
Rent of Principal's official residence credited direct to this Account	120	0	0
Senatus Academicus, Appendix II.			
Sir Wm. Fraser Chair, for Professor's salary	1,315	16	0
Sir Wm. Fraser's General Fund, for Lecturer's salary	300	0	0
Garton Lectureship	119	18	6
	<hr/>		
	£9,272	5	11

Carry forward, £9,272 5 11 £11,527 1 0

I. GENERAL UNIVERSITY FUND—continued :—

REVENUE—continued :— Brought forward, £9,272 5 11, £11,527 1 0

2. Income from Endowments—continued :—

(2) Other purposes :—

From the following sources :—

Branch V. (a) . . . £44 19 6

Branch V. (b) . . . 1,370 17 1

Administration of Bursary Funds, Branch VI. 347 18 7

Merchant Company, for Class Expenses and Prizes credited direct to this account . . . 74 0 0

Senatus Academicus, Appendix II.

Sir Wm. Fraser Library Fund . . . 486 11 6

Sir Wm. Fraser Chair Fund, for Expenses . . . 42 12 6

Sir Wm. Fraser General Fund, for expenses . . . 0 19 0

2,367 18 2

£11,640 4 1

(b) Unappropriated :—

From the following sources :—

Interests, Rents, and Income Tax credited

direct to this Account £3,923 4 1

Branch IV. . . . 5,935 1 5

Branch V. (c) . . . 214 10 10

10,072 15 4

3. Annual Grants from Private Sources

21,713 0 5

4. Local Taxation Grant

2,106 6 0

5. Parliamentary Grant

£10,800 0 0

15,120 0 0

£25,920 0 0

Deduct Amounts annually set apart in terms of Ordinance :—

(1) For Pensions to Retired

Professors, carried to Pension Fund, Branch III.

£5,000 0 0

(2) For Salaries to Professors, carried to Salaries Account, Branch II.

5,635 0 0

(3) For King William III. Bursaries, carried to the

Bursaries Account

50 0 0

10,685 0 0

£15,235 0 0

Carry forward,

£15,235 0 0 £35,346 7 5

STATE OF FINANCES

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1. GENERAL UNIVERSITY FUND—continued:—

REVENUE—continued:—

Brought forward, £15,235 0 0 £35,346 7 5

6. Treasury Grant:—

Grant for second half of year 1917-18, and
first half of year 1918-19 . . . £12,500 0 0Amount reserved from Grants,
brought forward from last year . . . 149 6 6

£12,649 6 6

Less, unexpended Balance for
Apparatus, carried forward
to next year 83 0 11

12,566 5 7

27,801 5 7

Special Treasury Grant towards loss of Revenue
owing to the war £6,500 0 0Carried to Revenue and Expenditure Balance
Account, p. 817, in reduction of debit balance
thereon 6,500 0 0

6,500 0 0

7. Miscellaneous Receipts, including subscriptions for use of the
Library, rents of Rooms, etc. 76 7 0

Total Revenue £63,224 0 0

1. GENERAL UNIVERSITY FUND:—

EXPENDITURE.

1. Administration £7,355 10 10

2. Salaries to Principal and Professors (not paid
through Salaries Account):—

Principal £2,120 0 0

Professors 8,006 14 1

10,126 14 1

3. Pensions to Retired Professors, payable out of
the General University Fund 1,082 15 0

4. Maintenance of Buildings, Service, etc.:—

Ordinary £13,402 4 8

Non-recurrent 582 5 5

13,984 10 1

5. Library £4,785 7 4

Less, Drawn from

Cataloguing Sus-
pense Account £1,442 10 9Library Sus-
pense Account 42 16 7

1,485 7 4

6. Class, Laboratory, and Museum Expenses, Equip-
ment, etc. 3,300 0 0

7. Lecturers 5,767 11 2

8. Assistants 15,630 16 7

9. Examiners 7,225 0 8

10. Class Medals and Prizes 2,010 0 10

11. Graduation Expenses 34 10 0

12. Incidental Expenses and Grants 229 10 9

298 17 0

Total Expenditure £67,045 17 0

Capital, includ-
ing balance, at
close of year.

£74,000 0 0

£74,000 0 0

II. SALARIES ACCOUNT AND FEE FUND ACCOUNT :—

I. Salaries Account :—

Revenue.

Expenditure

From the following sources :—

Branch IV.. . . . £629 14 0

Branch V. 2,919 5 0

Merchant Company, towards
Salary of Professor of
Political Economy, cred-
ited direct to this account 450 0 0Society of Writers to the
Signet, towards Salary of
Professor of Conveyancing
credited direct to this A/c 105 0 0£4,103 19 0General University Fund,
Branch I. 5 of Revenue,
out of Parliamentary
Grant 5,635 0 0

2. Fee Fund Account :—

Total Class and Laboratory
Fees collected . . . £24,001 19 0Less, carried to General
University Fund, surplus
after making up, with in-
come from Endowments in
Salaries Account, the nor-
mal Salaries to Professors . 3,107 18 03. Fees not falling into Fee Fund, collected for
Faculties of Divinity and Music :—

Professors £115 10 0

Lecturer on Music . . . 23 2 0

20,894 1 0 20,894 1 0

Total Revenue and Expenditure

138 12 0 138 12 0
£30,771 12 0 £30,771 12 0

III. PENSION FUND :—

Amount set aside out of
Parliamentary Grants
transferred from Gen-
eral University Fund
Revenue I. 5 . . . £5,000 0 0Interest on Invested
Accumulations . . . 694 12 4
£5,694 12 4Less, Surplus added to
Fund 1,470 0 8Capital, includ-
ing balances, at
close of year.£21,812 5 7£21,812 5 7Total Revenue and Expenditure . £4,224 11 8 £4,224 11 8
£4,224 11 8 £4,224 11 8

IV. FUNDS PARTLY OR WHOLLY UNAPPROPRIATED TO PARTICULAR PURPOSES:—

				Revenue.			Carried to General Univ. Fund.		Carried to Salaries Account.			
£58,175	11	0	1. Annuity under the Edinburgh Corpora- tion Stock Act, 1894 .	£1,735	14	4	£1,106	0	4	£629	14	0
48,500	0	0	2. General John Reid's Trust	1,903	3	9	1,903	3	9	...		
14,039	15	8	3. General Sir Joseph Straton's Trust Fund	656	1	4	656	1	4	...		
1,794	14	8	4. Robert Cox's Bequest	80	15	2	80	15	2	...		
4,998	3	0	5. Miss Eleanor A. Or- merod's Bequest . .	151	5	8	151	5	8	...		
3,520	0	0	6. Miss Marion Suther- land's Bequest . . .	149	12	4	149	12	4	...		
77,904	14	5	7. Daniel Mackintosh Forbes' Bequest . .	2,786	1	8	2,786	1	8	...		
900	0	0	8. Edinburgh University Medical Women's Fund	4	5	6	14	5	6	...		
<hr/>				<hr/>				<hr/>				
£209,832	18	9		£7,476	19	9	£6,847	5	9	£629	14	0

Carried to the following Accounts:—

General University Fund, Branch I.
2 (a) (1) of Revenue, for Salaries
to Principal, Professors, Lecturers,
and Assistants . £912 4 4

General University
Fund, Branch I.
2 (b) for General
Purposes . . 5,935 1 5
Salaries A/c. Branch II. 629 14 0

7,476 19 9

V. FUNDS APPROPRIATED TO PARTICULAR PURPOSES :—

(a) Professorships, Lectureships, and Teaching Foundations :—

Capital, including balances, at close of year.

£18,046	12	6	1. Baxter Fund for Salaries of Professors	.	.	.	.	.
5,000	0	0	2. Charles Bruce Lectureship on Banking	.	.	.	.	.
10,455	1	9	3. Bell Chair of Education	.	.	.	.	.
12,419	15	1	4. Barclay and Goodsir Lectureship on Comparative Anatomy	.	.	.	.	.
14,151	0	8	5. Celtic Chair	.	.	.	.	.
10,681	19	4	6. Christison Chair of Therapeutics	.	.	.	.	.
23,206	12	3	7. Sir Donald Currie Lectureships Fund	.	.	.	.	.
5,000	0	0	8. Chair of Engineering	.	.	.	.	.
4,500	0	0	9. Lectureship on Economic History	.	.	.	.	.
3,020	17	7	10. Lectureship on Forestry	.	.	.	.	.
3,440	0	0	11. Lectureship on Forest Botany	.	.	.	.	.
12,128	2	10	12. Chair of French	.	.	.	.	.
9,624	2	8	13. Chair of German	.	.	.	.	.
27,765	1	2	14. Gifford Lectureship	.	.	.	.	.
25,014	0	10	15. Irvine Chair of Bacteriology	.	.	.	.	.
6,226	0	10	16. Muir Chair of Sanskrit	.	.	.	.	.
4,936	7	5	17. Murchison Chair of Geology	.	.	.	.	.
2,000	0	0	18. Aeneas Mackay Lectureship on History	.	.	.	.	.
6,290	7	7	19. Munro Lectureship on Anthropology	.	.	.	.	.
3,000	0	0	20. Lectureship on Mercantile Law	.	.	.	.	.
15,000	0	0	21. Moncrieff-Arnett Chair of Clinical Medicine	.	.	.	.	.
15,667	14	9	22. Chair of Medical Chemistry	.	.	.	.	.
2,027	2	5	23. Nichol Foundation	.	.	.	.	.
1,252	4	4	24. Pulteney Chair of Agriculture	.	.	.	.	.
5,000	0	0	25. Lord Abercromby's Gift	.	.	.	.	.
7,000	0	0	26. Lectureship on Tropical Diseases	.	.	.	.	.
3,500	0	0	27. Lectureship on Technical Mathematics	.	.	.	.	.
11,476	17	0	28. Chair of Tuberculosis	.	.	.	.	.
15,604	18	7	29. Chair of Public Health	.	.	.	.	.
3,013	1	4	30. Steven Lectureship on Agriculture	.	.	.	.	.
1,192	0	0	31. Thomson Fund for Salary of Professor of Natural History	.	.	.	.	.
11,103	16	0	32. Watson Gordon Chair of Fine Art	.	.	.	.	.

£298,743 16 11

Carried to the following Accounts :—

General University Fund, Branch I. 2 (a) (1) of Revenue for Salaries of Professors, Lecturers, and Assistants	£6,384	7	1
General University Fund, Branch I. 2 (a) (2) for other specific purposes			
Salaries Account, Branch II.	44	19	6
Added to Funds, £2127, 16s. 10d.; less drawn from Funds, £16, 19s. 2d.	2,919	5	0
	2,110	17	8

STATE OF FINANCES

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	Revenue.	Carried to General Univ. Fund.	Carried to Salaries Account.	Revenue added to Accumulations.	Revenue drawn from Accumulations.
1.	£587 2 10	£17 5 0	£534 16 0	£35 1 10	...
2.	250 0 0	250 0 0	...	...	...
3.	441 12 9	...	447 9 0	...	...
4.	470 10 4	474 16 0	...	...	£5 16 3
5.	578 5 8	...	581 13 0	...	4 5 8
6.	479 2 2	...	...	...	3 7 4
7.	1,108 13 9	1,108 13 9	...	479 2 2	...
8.	225 0 0	...	225 0 0	...	...
9.	140 7 10	140 7 10	...	...	...
10.	118 5 7	118 5 7	...	...	...
11.	138 3 2	138 3 2	...	...	...
12.	352 0 0	250 0 0	...	...	...
13.	404 8 8	250 0 0	...	102 0 0	...
14.	901 0 5	44 19 6	...	154 8 8	...
15.	1,079 10 11	1,058 13 0	...	856 0 11	...
16.	272 3 6	...	272 2 6	20 17 11	...
17.	181 12 11	...	184 13 6	...	...
18.	102 10 0	102 10 0	...	...	3 0 7
19.	235 13 7	...	...	...	...
20.	93 12 0	93 12 0	...	235 13 7	...
21.	750 0 0	750 0 0	...	...	...
22.	167 14 9	...	...	...	...
23.	48 16 2	48 16 2	...	167 14 9	...
24.	62 10 0	...	62 10 0	...	...
25.	...	...	...	...	...
26.	218 7 10	218 7 10	...	...	...
27.	109 3 9	109 3 9	...	...	...
28.	450 0 0	373 3 0	...	...	...
29.	732 0 8	732 10 0	...	76 17 0	...
30.	150 0 0	150 0 0	...	...	0 9 4
31.	59 12 0	...	59 12 0	...	...
32.	551 9 0	...	551 9 0	...	...
<hr/>					
	£11,459 9 3	£6,429 6 7	£2,919 5 0	£2,127 16 10	£16 19 2

£11,459 9 3

V. FUNDS APPROPRIATED TO PARTICULAR PURPOSES—*continued* :—

(b) Purposes other than Professorships, Lectureships, and Teaching Foundations :—

Capital, includ-
ing balances, at
close of year.

£304	10	0	1. French and German Chairs—Class Prizes Fund			
600	0	0	2. Chair of Engineering—Expenses Fund			
2,416	4	10	3. Gilchrist Fund, for Apparatus			
7,981	16	9	4. Irvine Chair of Bacteriology—Expenses Fund			
978	1	3	5. Murchison Chair of Geology—Expenses Fund			
6,500	18	10	6. M'Ewan Hall			
1,113	16	0	7. Reid Professorship of Music—Assistants and Expenses Fund			
			(a) Assistants and Expenses Account			
			(b) Orchestra Account			
298	0	0	8. Thomson Fund, for Expenses of Chair of Geology			
7,500	19	0	9. Chair of Tuberculosis—Expenses Fund			
3,065	17	7	10. University Building Fund			
1,122	4	6	11. Watson Gordon Chair of Fine Art—Expenses Fund			
150	0	0	12. University Athletic Field Fund			
230	4	9	13. Walker Library Fund			
161	5	7	14. Mackay Library Fund			
75	7	2	15. Tiele Library Fund			
231	3	7	16. Gibson German Library Fund			
1,620	6	8	17. Jane Kirkpatrick History Library Fund			
1,006	10	1	18. Fund in lieu of Insurance against loss through personal injury to Employees			
£35,357	6	7				
2,415	12	2	19. Library Catalogue Suspense Account			
264	6	1	20. Library Suspense Account			
£38,037	4	10				

Carried to the following Accounts :—

General University Fund, Branch I. 2 (a) (1) of Revenue for salary of Assistant in Music	£120	0	0
General University Fund, Branch I. 2 (a) (2) for Class Expenses, Upkeep of M'Ewan Hall, Reid Music Chair and Orchestra Expenses, Class Prizes, etc.	1,370	17	1
General University Fund, Branch I. 7, Rent for Use of M'Ewan Hall	31	0	0
General University Fund, Branch I. 2 (2) (b) income on University Building Fund	214	10	10
Added to Funds, £1237, os. 5d.; less drawn from Funds.			
£3, 15s. 10d.	1,233	4	7

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Revenue.	Carried to other Funds.	Revenue added to Accumulations.	Revenue drawn from Accumulations.
1. £10 8 11	£10 8 11	...	...
2. 27 0 0	27 0 0	...	...
3. 98 9 2	56 0 0	42 9 2	...
4. 428 15 10	...	428 15 10	...
5. 36 6 2	36 6 2	...	...
6. 353 10 0	353 10 0	...	...
7. (a) 391 11 3	277 15 3	113 16 0	...
7. (b) 691 7 3	691 7 3	...	...
8. 14 18 0	14 18 0	...	...
9. 507 19 9	...	507 19 9	...
10. 214 10 10	214 10 10	...	...
11. 45 3 2	48 19 0	...	£3 15 10
12. 5 12 6	5 12 6	...	...
13. 10 0 0	...	10 0 0	...
14. 5 0 5	...	5 0 5	...
15. 2 6 10	...	2 6 10	...
16. 12 10 0	...	12 10 0	...
17. 69 2 5	...	69 2 5	...
18. 45 0 0	...	45 0 0	...
19. ...	...	...	...
20. ...	...	...	...
£2,969 12 6	£1,736 7 11	£1,237 0 5	£3 15 10

VI. FUNDS FOR BURSARIES, SCHOLARSHIPS, FELLOWSHIPS, AND PRIZES:—

Capital, including balances, at close of year.					Revenue.	Expenditure.
£5,373	14	4	1. Aitken Scholarship		£193 9 2	£3 14 10
477	19	6	2. Ardvorlich Bursary		11 18 3	0 8 0
1,338	10	7	3. Neil Arnott Prize		45 0 0	0 18 0
1,196	8	7	4. Neil Arnott Scholarship		53 12 6	55 0 6
570	13	3	5. Anderson Henry Prize		11 18 3	0 4 10
259	13	0	6. Annandale Gold Medal		6 14 0	0 2 9
2,185	4	10	7. Archibald or M'Guffie Bursaries		115 7 6	19 14 10
4,310	16	5	8. Baxter Mathematical and Philosophical Scholarships		125 6 5	2 9 0
5,028	2	1	9. Baxter Natural and Physical Science Scholarships		173 19 5	3 7 8
5,797	19	5	10. Misses Baxter of Balgavies Scholarships		227 17 2	173 12 6
			11. John Edward Baxter Scholarships, viz.:—			
8,805	13	0	(1) Fund for Scholarships		389 2 8	279 17 8
407	11	2	(2) Fund for Examiners' Fees		10 9 1	0 4 2
17,760	18	7	12. Bruce Bursaries and Scholarships		579 0 1	97 13 0
1,000	0	0	13. Beaney Prize		50 0 0	50 0 0
1,406	13	10	14. Buchanan Scholarship		30 7 6	0 12 2
861	7	3	15. Buchanan Bursary		17 16 0	0 12 2
4,424	19	9	16. Bucher Scholarship		146 8 4	2 17 3
1,034	13	7	17. Bayne Bursary		22 7 3	0 9 0
896	10	2	18. Brown Bursaries		22 7 3	15 5 0
477	15	6	19. Blair Arts Bursary		7 18 3	0 5 6
248	17	5	20. John Beattie's Bursaries		7 2 3	7 2 3
1,391	17	6	21. Misses Brown Bursaries		33 0 0	1 0 6
758	13	11	22. Blackie Memorial Prize		24 10 11	0 19 0
4,645	10	2	23. Charles B. Black Scholarships		211 15 10	191 6 4
165	3	2	24. Butcher Memorial Prize		4 18 9	5 0 0
39	9	7	25. Crum Brown Medal		1 3 9	1 2 6
£70,864	16	7				
			Carry forward.		£2,523 10 7	£913 19 5

VI. FUNDS FOR BURSARIES, ETC.—*continued* :—

Capital, including balances, at close of year.

					Revenue.	Expenditure.
£70,864	16	7		Brought forward,	£2,523 10 7	£913 19 5
570	11	8	26.	Cairns Bursary	14 3 0	0 9 6
4,080	3	9	27.	Cameron Prize	147 2 8	11 4 0
1,759	12	8	28.	Dr John Aitken Carlyle's Medical Bursaries	58 2 8	60 19 7
464	4	5	29.	Cousin Prize	15 0 3	14 17 1
863	0	6	30.	Baillie Cousin Bursary	27 7 6	0 18 0
1,137	13	4	31.	Cobb Scholarship	39 16 5	0 15 8
40,513	3	11	32.	Crichton Bursaries	1,655 10 2	641 12 4
364	7	2	33.	Chiene Prize	7 11 3	0 3 0
175	17	7	34.	Cunningham Memorial Prize	6 16 6	7 0 7
1,201	6	1	35.	Cropper Scholarships	54 13 11	39 17 1
3,010	2	8	36.	Drummond Scholarship, viz. :—		
333	17	6	(1)	Fund for Scholarship	52 10 0	3 3 0
3,434	9	7	(2)	Fund for Examiners' Fees	10 10 0	0 4 2
			37.	William Dickson Travelling Fund.	95 16 9	1 9 1
1,127	19	0	38.	Dundas Bursaries	58 16 5	34 2 0
472	10	10	39.	Dalgleish and Macmorran Bursary	10 6 10	0 7 0
1,016	7	3	40.	Conan Doyle Prize	50 0 0	50 0 0
4,765	3	4	41.	Donaldson of Auchairne Bursaries	214 17 4	159 9 4
3,928	13	9	42.	Ettles Divinity Scholarships	136 0 10	2 14 0
1,000	0	0	43.	Ettles Medical Scholarship	61 5 0	50 0 0
1,041	0	1	44.	Ellis Prize	36 5 0	0 13 10
			45.	Falconer Memorial Fellowship, viz. :—		
3,385	15	4	(1)	Fund for Fellowship	136 10 2	129 11 4
139	17	8	(2)	Fund for Examiners' Fees	4 9 11	0 1 10
1,434	6	7	46.	Fotheringham and Forrest Bursaries	55 14 0	32 13 6
1,148	14	10	47.	James Fairbairn Scholarship	25 6 4	0 17 2
1,716	19	5	48.	Freeland Barbour Fellowship	39 16 5	0 15 8
1,596	13	9	49.	Fraser Bursaries	38 10 0	1 2 10
£151,547	9	3		Carry forward,	£5,576 9 11	£2,159 1 0

VI. FUNDS FOR BURSARIES, ETC.—*continued* ;—Capital, including
balances, at
close of year.

Close of year.			Brought forward.			Revenue.	Expenditure.
£151,547	9	3				£5,576 9 11	£2,159 1 0
1,593	19	2	50. Donald Fraser Bursary . . .			50 7 3	51 0 0
1,167	18	1	51. Ford Bursaries . . .			27 11 8	11 13 5
1,451	0	2	52. Glover Divinity Scholarship . . .			44 16 8	0 17 9
3,087	18	8	53. Gray Scholarship . . .			108 6 0	2 2 0
2,696	18	11	54. Guthrie Fellowship . . .			147 8 2	132 9 8
13,007	9	0	55. Grierson Bursaries . . .			503 16 6	143 15 1
8,759	2	3	56. Gunning Victoria Jubilee Prizes in Medicine . . .			323 13 8	6 7 0
9,015	16	2	57. Gunning Victoria Jubilee Prizes in Divinity . . .			308 6 5	55 17 4
4,670	9	6	58. Goodsir Memorial Fellowship . . .			105 19 2	2 3 0
351	17	8	59. Dorothy Gilfillan Prize . . .			16 13 11	17 9 10
			60. Hamilton Fellowship, viz. :—				
2,773	9	4	(1) Fund for Fellowship . . .			118 1 3	67 16 0
193	16	0	(2) Fund for Examiners' Fees . . .			5 12 6	0 2 3
1,094	19	3	61. Harrison Bursary . . .			19 0 7	0 7 10
3,162	13	10	62. Hope Chemistry Prize Schol- arships . . .			119 11 9	91 18 6
2,025	8	1	63. Robert Hunter Bursaries . . .			66 12 7	1 17 8
2,133	19	6	64. Houldsworth Scholarship . . .			46 14 6	0 18 4
901	3	8	65. Jardine Bursary . . .			32 3 1	1 1 9
9,621	8	8	66. Jardine of Thorlieshope Bur- saries . . .			375 19 11	200 11 1
521	1	3	67. Johnstone of Harthope Bur- sary . . .			18 15 0	0 11 2
4,927	19	6	68. Jeffrey Scholarships . . .			212 16 5	118 2 7
2,224	2	7	69. Robert Johnston Bursaries . . .			54 10 11	1 6 8
504	14	6	70. Archibald Johnston Bursary . . .			9 12 11	0 4 0
1,358	5	2	71. David Kidd Divinity Scholar- ship . . .			38 7 3	0 14 7
159	3	5	72. Kelland Memorial Prize . . .			3 8 6	4 12 0
1,949	12	2	73. Miss Annabella Kirkpatrick Scholarship . . .			69 7 6	1 7 8
£230,901	15	9	Carry forward.			£8,404 4 0	£3,074 8 2

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VI. FUNDS FOR BURSARIES, ETC.—*continued* :—Capital, including
balances, at
close of year.

			Brought forward,			Revenue.	Expenditure.
						£ s d	£ s d
£230,901	15	9				£8,404 4 0	£3,074 8 2
1,075	16	5	74. Lockerby Bursary			22 13 0	0 9 3
1,962	18	3	75. Lorimer Travelling Scholarship				
101	10	2	76. Norman Lucas Prize			54 2 2	1 1 0
2,456	4	6	77. Leckie Mactier Fellowship			1 13 2	0 3 0
			78. Charles Maclaren Scholarship, viz. :—			91 17 6	1 14 6
3,686	17	0	(1) Fund for Scholarship			125 8 0	2 8 2
272	3	0	(2) Fund for Examiners' Fees			5 19 2	0 2 5
1,241	13	9	79. Maxton Scholarship			39 7 7	0 15 0
3,475	7	6	80. Mackenzie Classical Scholarship			68 2 3	3 15 11
3,396	11	11	81. Macpherson Scholarship			82 15 11	1 12 6
1,057	3	6	82. Marshall Bursary			50 0 0	49 18 10
1,060	6	1	83. Mackenzie Bursaries in Anatomy				
2,143	12	4	84. Mackinnon Bursaries			40 13 5	23 0 4
2,395	10	10	85. Mann Bursaries			74 18 8	1 9 3
1,956	0	6	86. Mackie Bursaries			98 10 10	72 7 5
2,865	16	2	87. Maclaurin Bursary			46 19 11	1 10 8
3,120	12	6	88. Maule Bursaries			109 7 3	3 0 11
449	14	6	89. Milner Fothergill Prize			80 14 6	45 10 2
500	0	0	90. Muirhead Prize			11 3 11	0 4 6
759	15	7	91. M'Lurg and Penman Bursary			22 12 6	33 7 5
869	10	0	92. Miller Bursary			14 16 2	0 6 0
901	9	6	93. Mitchell and Shortt Bursary			17 17 4	0 7 2
1,023	4	5	94. Mackenzie (Stornoway) Bursary			24 18 11	0 10 0
1,768	13	3	95. Mouat Scholarship			19 11 6	0 13 6
6,228	15	2	96. M'Cosh Graduates' Bursary			59 19 0	1 10 6
455	18	6	97. M'Cosh Medical Bursary			231 4 8	4 11 10
23,903	18	10	98. Moray Fund for Research			14 10 0	0 6 0
734	16	11	99. William Macdonald Bursaries			1,130 0 5	362 2 2
2,747	13	1	100. Newton Bursaries			37 0 0	2 3 1
£303,513	9	11	Carry forward,			93 5 3	38 13 0
						£11,074 7 0	£3,728 2 8

VI. FUNDS FOR BURSARIES, ETC.—*continued* :—

Capital, including balances, at close of year.						Revenue.	Expenditure
£303,513	9	11	Brought forward.			£11,074 7 0	£3,728 2 8
625	12	2	101.	Nairne Bursary		14 9 10	0 5 0
57	11	11	102.	Napier Medal in Mathematics		1 8 2	0 0 6
2,136	13	10	103.	Pitt Club Classical Scholarship		97 6 3	49 19 6
4,320	14	1	104.	Pitt Club Theological Scholarship		168 11 11	3 8 8
3,836	2	5	105.	Patrick Bursaries		133 1 3	53 18 0
459	6	6	106.	Pattison Prize		15 0 0	20 0 0
667	3	4	107.	Patterson Bursary		19 14 2	0 6 10
638	3	10	108.	Baillie John Penman Bursary		14 14 8	0 5 10
488	12	9	109.	Rev. John Penman's High School Bursaries		14 5 4	0 5 9
712	14	10	110.	Pringle and Wardrop Bursary		18 14 1	0 7 2
159	8	10	111.	Hon. Bouverie Primrose Research Fund		3 15 0	0 1 6
5,652	6	11	112.	Rhind Scholarships		199 5 1	3 18 2
585	15	11	113.	Renton Bursary in Arts		14 17 10	0 10 0
861	13	4	114.	Renton Bursary in Divinity		24 14 3	0 14 11
383	14	0	115.	Ramsay Bursary in Arts		8 5 6	0 5 4
775	16	9	116.	Ramsay Bursary in Divinity		19 2 7	0 11 2
3,280	5	3	117.	Ritchie Scholarships		68 1 9	1 7 6
2,469	8	10	118.	Horsliehill Scott Bursaries		90 15 1	1 15 2
4,363	16	0	119.	Shaw Fellowship		215 0 0	215 0 0
2,122	14	6	120.	Steven of Bellahouston Scholarship		65 17 0	5 9 8
4,307	15	8	121.	Syme Surgical Fellowship, viz. :—			
337	8	1	(1)	Fund for Fellowship		152 16 8	2 18 0
343	14	7	(2)	Fund for Examiners' Fees		6 14 1	0 2 9
284	14	5	122.	Scott and Dunbar Prize		26 8 4	14 18 4
3,225	2	4	123.	Dobbie Smith Prize		7 10 5	0 3 0
184	6	10	124.	Mackay Smith Scholarships, viz. :—			
1,734	18	7	(1)	Fund for Scholarships		93 0 7	50 0 0
1,070	0	1	(2)	Fund for Expenses		2 19 0	1 13 4
929	5	9	125.	Stark Scholarship		54 15 11	1 0 10
£350,528	12	3	126.	James Scott Scholarship		34 16 2	35 0 0
			127.	Struthers and Leighton Bursary		21 3 5	0 14 2
			Carry forward,			£12,681 11 2	£4,193 3 9

Capital, including balances, at close of year.

Total Revenue and Expenditure, Surplus on year.	£16,700 14 8	£4,846 13 0
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...	11,854	1	8
£16,700	14	8	£16,700 14 8

£1,303 4 9

Amount thereof

Total Revenue and Expenditure,
Surplus on year

$\mathcal{L}38$	$I3$	5	$\mathcal{L}19$	$I2$	3
$\mathcal{L}38$	$I3$	5	$\mathcal{L}19$	$I2$	3
	...		$I9$	I	2
$\mathcal{L}38$	$I3$	5	$\mathcal{L}38$	$I3$	5

APPENDIX II.

FUNDS BEQUEATHED TO THE SENATUS ACADEMICUS SINCE THE UNIVERSITIES (SCOTLAND) ACT, 1889, CAME INTO OPERATION, AND ADMINISTERED BY THEM.

Capital, including balances, at close of year.

		Revenue.	Expenditure.
1. Sir Wm. Fraser Chair of Ancient History	£1,418 18 4		
Less paid to University Court for Professor's Salary, £1315/16/, and Expenses, £42/12/6	1,358 8 6		
£27,229 9 4		£60 9 10	£24 19 0
2. Sir Wm. Fraser Library Fund	£500 0 0		
Less paid to University Court for Library	486 11 6		
10,000 0 0		13 8 6	13 8 6
3. Sir Wm. Fraser Fund, preferably for certain other specified purposes	£619 19 10		
Less paid to University Court for Salary of Lecturer on Ancient History, £300, and Expenses, 19/.	300 19 0		
15,671 13 4		319 0 10	16 14 9
4. Garton Lectureship on Indian and Colonial Agriculture	£119 18 6		
Less paid to University Court for Lecturer's Salary	119 18 6		
2,000 0 0			
1,777 14 7			
2,848 15 8			
2,912 3 5			
110 10 10			
306 0 6			
844 1 6			
2,998 15 2			
1,656 3 2			
£68,355 7 6			
5. Dr John Allan's Fellowship Fund	59 1 11		1 16 9
6. Edmonstoun Aytoun Fellowship Fund	73 7 3		2 2 9
7. Blackie Scholarship Fund	108 1 11		2 19 6
8. Lauder Brunton Prize	5 10 0		0 3 8
9. Currie Fund for Research	10 1 6		0 13 8
10. Robert Mackenzie Campbell Scholarship Fund	22 6 4		0 19 0
11. Keith Scholarships	142 4 4		12 17 6
12. Reid and Thomson Bursary Fund	56 5 5		1 16 3
Total Revenue and Expenditure,	£869 17 10	£78 11 4	

THE UNIVERSITY COURT.

ABSTRACT OF THE PROCEEDINGS OF THE UNIVERSITY COURT, from 21st October 1918 to 14th July 1919.

MONDAY, 21st October 1918.

The Principal welcomed Sir Ludovic Grant as Secretary of the University, and cordially thanked Sir Richard Lodge for the valuable services which he had rendered as Interim Secretary.

The minutes of the last ordinary meeting on 15th July were submitted and approved.

It was reported that Mr George Campbell, who had been Clerk to the Secretary of the Court since 1890, had died on 21st September, and the Court resolved to record their high sense of the great zeal, efficiency, and knowledge which Mr Campbell had brought to the discharge of his duties.

The Treasury intimated a grant of £6500 for the University, out of the sum provided under the estimates for the current year in respect of losses caused by the war.

On the motion of Mr Clark, a Committee was appointed to consider the development of the University, to prepare a scheme showing its present and prospective needs, and to consider methods for securing the necessary financial provision.

Intimation was made from the Privy Council Office that the approval of His Majesty in Council had been given on 4th September to Ordinance No. 25 (Regulations for Degrees in Arts), and to Ordinance No. 24 (Foundation of Chair of Therapeutics).

A Committee reported that arrangements had been made for a course in Russian during the current session, the class fee to be £2, 2s., with 5s. entry fee for non-matriculated students.

The Senatus reported that Professor Sarolea and Professor Cushny had been duly admitted members of Senatus on 3rd October.

The Senatus reported that they had accepted the offer by Mrs Claude Conder of the books on Archaeology and the Study of Languages of her late husband Colonel Claude Reignier Conder, an honorary graduate of the University.

On the recommendation of the Senatus, the Court resolved to renew the arrangements of last year for classes in Divinity to be given jointly by the

University and New College, and also resolved to renew the teaching arrangements at present existing in the Department of Latin.

On the recommendation of the Senatus, leave of absence was granted to Mr W. Hume Kerr, Lecturer on Engineering Drawing, for special work in France in connection with instructional courses for the troops.

A Draft Ordinance (Institution of Offices of Reader, Senior Lecturer, etc.) was submitted, and, subject to certain adjustments, was ordered to be communicated to the Senatus and General Council.

Professor Hudson Beare intimated that with the help of personal friends he had been able to purchase and present to the University Entomological Department, the Waterhouse Collection of British Coleoptera. The cordial thanks of the University Court were conveyed to Professor Hudson Beare and to those who had helped him.

Professor Hudson Beare was appointed as representative of the University on the Officers' University and Technical Training Committee for Scotland.

Leave of absence was granted to Mr J. B. Guild, Lecturer on Political Economy, to enable him to continue to act as a statistical officer in the Ministry of Food.

Mr Walker, Sir Richard Lodge, and Professor Hudson Beare were appointed as the Court's representatives on the Board of Management of Hostels for women students.

Various reports by the Finance Committee and the Works Committee were submitted and approved.

MONDAY, 18th November 1918.

The minutes of the last meeting were submitted and approved.

It was reported that the Senatus had re-elected Professor Rankine as one of their Assessors on the Court.

Intimation was made from the Privy Council that Ordinance No. 70, General No. 3 (Regulations as to Admission to the Scottish Universities for purposes of Graduation) had been approved by His Majesty in Council on 23rd October.

In terms of Sections 2 and 3 of the aforesaid Ordinance, the Court appointed the following four members of the Entrance Board constituted under the Ordinance:—Professor Littlejohn (1 year), Sir Richard Lodge (2 years), Professor Darroch (3 years), Mr J. B. Clark (4 years).

The Court appointed Principal Sir Alfred Ewing, Mr Walker, and Professor Hudson Beare to be their representatives at a Conference between the Scottish University Courts on the Status, etc., of Lecturers and Assistants.

The Principal made a statement on the situation, as regards University training, likely to arise in consequence of demobilisation.

The Court approved of a scheme made by arrangement with the War Office, under which the Forestry Department are to be granted facilities for using the woods and nursery of Dreghorn estate as a forest garden for the training of University students.

On the recommendation of the Senatus, the Court recognised Professor Varder of Rhodes University College, Grahamstown, as an Extra-Academical Teacher on Physics, subject to the conditions upon which his predecessor, Professor Ogg, had been recognised.

On the recommendation of the Senatus, the Court recognised Dr Lloyd Williams and Mr R. D. Laurie, University College of Wales, Aberystwyth, as Extra-Academical Lecturers in Botany and Zoology respectively.

On the recommendation of the Senatus, the Court approved of a scheme of reconstruction in the English Department whereby a separate Lecturer in Language is to be appointed, and consequential changes are to be introduced.

On the recommendation of the Senatus, the Court resolved to continue the suspension of Class Prizes for the academical year 1918-19.

On the recommendation of a committee of the Senatus, the Court decided that the three-term system should be resumed this year in the Faculties of Arts and Science.

Grants were made from the Wardlaw Bequest in accordance with the recommendations of a committee of the Senatus.

It was reported that the Chancellor of the Exchequer had fixed Saturday, 23rd November, as the date on which he was to receive the deputation from the Universities of the United Kingdom, on the subject of their financial position and financial needs, which Sir Alfred Ewing had been appointed to attend as the delegate of Edinburgh University.

Communications were submitted from the General Council with reference to the Ordinance instituting the Ph.D. Degree, Draft Regulations for Diplomas in Actuarial Mathematics and in Geography, the Conference of Councils on the Status of Lecturers and Assistants, and the proposed Lectureship in Spanish.

It was reported that Mr W. F. Cuthbertson had been appointed a clerk in the office of the Secretary of the University as from 25th inst.

MONDAY, 16th December 1918.

The minutes of the last meeting were submitted and approved.

A letter was read from the Scottish Office intimating that the Loyal Address of the University of Edinburgh on the occasion of the visit of the King to Edinburgh had been laid before His Majesty, who was pleased to receive the same very graciously.

A letter was read from Messrs Lindsay, Howe & Co., W.S., intimating that the late Professor P. Hume Brown had bequeathed to the University of Edinburgh all his books and facsimiles dealing with Palaeography, and the death mask of Goethe, given to him by Professor Masson's family, and also a sum of £1500, the income from which was to be applied in providing a prize in connection with the subject of Scottish History, to be open by competition to students attending any of the Scottish Universities, subject to such conditions as might be prescribed by the authorities of the University of Edinburgh. The Court agreed to accept these bequests most gratefully.

The Senatus reported that the following had been appointed Deans for the ensuing year:—The Rev. Professor W. P. Paterson (Faculty of Divinity); Professor Mackintosh (Faculty of Law); Professor Sir Richard Lodge (Faculty of Arts); Professor Littlejohn (Faculty of Medicine); Professor Hudson Beare (Faculty of Science); Professor Tovey (Faculty of Music).

On the recommendation of the Senatus, the Court appointed Professor Gregory Smith, of the University of Belfast, to be Additional Examiner in connection with a thesis presented for the degree of D.Litt.; and Professor Brown, of Bangor College, North Wales, to be Additional Examiner in connection with a thesis for the degree of D.Sc.

Grants recommended by the Senatus from the income of the Earl of Moray Endowment for the Promotion of Original Research were approved.

On the recommendation of the Senatus, the Court resolved to recognise the University of Illinois for the purposes of the B.D. Degree, in terms of Ordinance No. 63, Section 1.

On the recommendation of the Senatus, the Court approved of the arrangements which had been made, in consequence of the death of Dr W. G. Smith, for carrying on the work in the Department of Psychology.

It was intimated that copies had been received of the Report of the Students' Representative Council, 1917-18.

The Principal reported that on behalf of the University of Edinburgh he had attended the deputation of the British Universities regarding their financial position and needs, which had been received by the Chancellor of the Exchequer on 23rd November. A Statement of the Immediate Needs of the University, which had been prepared in accordance with the request of the Chancellor, was adjusted, and the Principal was authorised to transmit it to London.

A gift from Miss R. Mary Barclay for the purposes of the Library was gratefully accepted by the Court.

It was reported that Ordinance No. 28, instituting the Degree of Doctor of Philosophy (Ph.D.), had been signed and sealed, and it was resolved to transmit it to the Privy Council and to the University Courts of the other Universities, as prescribed in the Universities (Scotland) Act, 1889, Section 21.

MONDAY, 13th January 1919.

The minutes of the last meeting were submitted and approved.

An offer by a donor (who desired to remain anonymous) of a subscription annually for a term of years towards the endowment of a Tait Chair in Mathematical Physics was intimated, and was accepted by the Court with grateful acknowledgment.

Intimation was received from the Dean of the Faculty of Medicine that Dr Robert Murray Leslie, 143 Harley Street, London, Ettles Scholar in Medicine in 1892, had provided an endowment for a Gold Medal in connection with the Ettles Scholarship in Medicine, in memory of his mother, to be known as the Leslie Gold Medal in Medicine. The Court recorded its cordial thanks to the donor.

Dr M'Kenzie Johnston was reappointed a Curator of Patronage for a period of three years.

A report was submitted on the work of the Edinburgh University Contingent Officers' Training Corps, Senior Division, from August 1914 to November 1918. The Court agreed to send a letter to Major J. E. Mackenzie, the Adjutant, expressing their warm appreciation of the signal services which he had rendered in this connection.

A scheme was submitted by the Board of the Royal Edinburgh Asylum for the Insane for the establishment of a Chair of Mental Diseases, towards the salary of which an endowment of £10,000 was offered by the Board under certain conditions. The offer was gratefully accepted and the scheme was agreed to by the Court.

Mr James Walker and Sir George Berry were reappointed as representatives of the Court on the University Field Committee from 15th March next.

Mr Thomas H. Collinson, Mus. Bac., was reappointed University Organist for a year from 1st inst.

The following were appointed or reappointed as Additional Examiners:—
M. de Z. Wickremasinghe (Sanskrit); Mr W. T. Vesey (Classics); Dr A. T. Baker (French); Rev. M. MacLennan, D.D. (Celtic); Sir Eardley Wilmot (Forestry); Professor Farmer (Forest Botany); John A. Inglis, M.A., LL.B. (Civil Law, etc.); William Chree, LL.B. (Scots Law, etc.); John Bartholomew, M.A., LL.B. (Constitutional Law and Constitutional History, etc.); Dr Dawson Turner (Medical Physics); G. P. Yule, M.A., B.Sc. (Public Health); Professor Farmer (Botany); Professor J. P. Hill, F.R.S. (Natural History); Dr A. Lauder (Chemistry); Professor J. A. Gunn (Materia Medica); J. H. Pringle, M.B., F.R.C.S. (Surgery); Professor A. Donald (Midwifery).

Various reports by the Finance, Works, and Business and Law Committees were submitted.

MONDAY, 17th February 1919.

The minutes of the last meeting were submitted and approved.

It was intimated that Mr George Barger, M.A., D.Sc., Research Chemist to the Medical Research Committee, National Health Insurance, had accepted the offer of the Chair of Chemistry in relation to Medicine as from 1st April next.

It was intimated that an Order of His Majesty in Council had been received approving of Ordinance of the University Court of the University of Edinburgh, No. 27 (Regulations as to the Finances of the University).

A letter was read from the Treasury intimating that an advance of £7000, by way of grant from the Development Fund, would be made to the University in aid of the endowment of a Chair of Forestry, on the condition, already accepted by the University, that the remaining £7000 required for the Endowment Fund was provided by the University from other sources. The Court resolved to institute a Chair accordingly.

It was resolved to institute a Lectureship in Technical Chemistry.

It was resolved, on the recommendation of the Senatus, to establish a Post-Graduate School of Studies in Theology on lines suggested by the Faculty of Divinity.

It was decided, on the recommendation of the Professor of Natural History, to establish a separate Professorship which should deal specially with the Zoology of the Invertebrates.

A letter was read from the War Office intimating that a German Field Gun had been allotted to the University by the War Trophies Committee "in order to recall to future generations the part played by both officers and cadets of the E.U. Contingent of the O.T.C. in preparing candidates for commissions during the Great War."

The Senatus intimated that Professor Lorrain Smith had been appointed Dean of the Faculty of Medicine in succession to Professor Harvey Littlejohn.

The Senatus transmitted to the Court a report by the Librarian for 1917-18 under the Commissioners' Ordinance No. 64, Section 16, and copies of an Abstract of the Report on the University Library.

On the recommendation of the Senatus, the Court granted an application for recognition of the Courses in the First Year Subjects in Medicine at the University of Stellenbosch as qualifying for the First Professional Examination in Medicine.

On the recommendation of the Senatus, the Court granted an application by Dr John Guy for recognition as an Extra-Academical Lecturer in Tuberculosis.

On the recommendation of the Senatus, the Court appointed Professor Craigie, Oxford, an Additional Examiner in connection with a thesis for the D.Litt. Degree.

On the recommendation of the Senatus, the Court resolved to institute a special Summer Term in Divinity of ten weeks, commencing on 15th April, to meet the requirements of students returning from war service.

On the recommendation of the Senatus, the Court approved of regulations for the Hume Brown Prize in Scottish History.

It was reported that copies had been received of Statistics of the Preliminary Examinations in September last, prepared by the Joint Board of Examiners.

Various reports by the Finance and Works Committee were submitted and approved.

MONDAY, 17th March 1919.

The minutes of the last meeting were submitted and approved.

An Order of His Majesty in Council of 12th inst. was read, approving the Joint Representation made by the four Scottish Universities under the Scottish Universities (Emergency Powers) Act, 1915, for powers to modify or suspend certain regulations in their application to graduates, students, or intending students, who are, or have been, engaged in naval, military or other public service connected with the war.

A letter was read from Professor Jehu intimating that Mr A. S. Stenhouse, F.G.S., Leith, and Major Walter Bisset, Skegness, had presented to the Geology Department valuable collections of minerals, rocks, and fossils.

A letter was read from Professor Alexis Thomson, offering on behalf of a donor who desired to remain anonymous, a gift of £10,000 to further progress in the study and teaching of some subject related to Surgery by endowing a Lectureship in Orthopædics. It was agreed to accept the gift with grateful thanks to the donor.

The Principal intimated that an offer of £15,000 for the foundation of a Chair in Accounting and Business Method had been made on behalf of subscribers by the Chairmen of the following bodies:—Edinburgh Chamber of Commerce, The Edinburgh Merchant Company, Leith Chamber of Commerce, Leith Shipowners' Society, The Society of Accountants in Edinburgh, The Institute of Bankers in Scotland. It was agreed to accept the offer with grateful acknowledgment.

A Draft Ordinance (Foundation of Chair of Accounting and Business Method) was accordingly submitted, and there was also submitted a Draft Ordinance (Foundation of Chair of Psychiatry). These were adjusted, and were ordered to be communicated to the Senatus and the General Council in terms of Section 21 of the Universities (Scotland) Act, 1889. Draft Ordinances were also reported for new Chairs in Forestry and Zoology.

The Court resolved to institute qualifying courses in Italian, Spanish and Russian, as from the commencement of the academic year 1919-20, and Mr Sanin Cano was appointed Lecturer in Spanish for five years from 1st October 1919.

A proposal to purchase a site for the extension of the University was approved.

On the recommendation of the Senatus, the Court agreed that a supplementary course of lectures and practical work in Chemistry for the First Professional Examination should be given during the summer session by the Professor of Chemistry in relation to Medicine, for the benefit primarily of students whose course had been interrupted by war service. The fee for the class was fixed at Four Guineas.

On the recommendation of the Senatus, the Court appointed Professor Scott, Glasgow, as Additional Examiner in connection with a thesis submitted for the D.Phil. degree, and appointed Emeritus Professor Saintsbury Additional Examiner in connection with a thesis submitted for the D.Litt. degree.

On the nomination of the Council of the Faculty of Actuaries, the Court appointed Mr A. E. Sprague, M.A., D.Sc., University Lecturer in Actuarial Science.

Various reports by the Finance and Works Committees were submitted and approved.

MONDAY, 14th April 1919.

The minutes of the last meeting were submitted and approved.

The Court appointed Dr Drever Combe Lecturer in Psychology for five years as from 1st October next.

The Annual Report on the State of the Finances of the University, duly audited, was submitted by the Finance Committee, and instructions were given that it should be forwarded to the Secretary for Scotland in terms of section 30 of the Universities (Scotland) Act, 1889.

The Finance Committee presented their Annual Report on the State of the Funds as at 31st August 1918, the Revenue and Expenditure Account for the year ending 31st August 1918, and as to the Estimates for the year ending 31st August 1919, in terms of Standing Order No. 28. The Court approved the Report.

The Court appointed Mr James A. Cameron, W.S., as Honorary Treasurer to the University Field Committee, in place of Mr J. L. Somerville who had resigned, and resolved to convey their sincere thanks to Mr D. E. Wallace, C.A., for his valuable services in acting as Interim Honorary Treasurer during Mr Somerville's absence on war service.

Sir Ludovic Grant tendered his resignation of office as Secretary of the University, to take effect at the end of the present academical year. The Court accepted his resignation with great regret.

On the recommendation of the Senatus, it was resolved to offer no objection to the Glasgow University Court Ordinances No. 21 (Institution of Ph.D. Degree), No. 22 (Foundation of Gardiner Chair of Bacteriology), No. 23 (Foundation of Gardiner Chair of Organic Chemistry), and No. 24 (Foundation of Gardiner Chair of Physiological Chemistry).

A syllabus of courses available for American soldiers and overseas students in the summer term, which had been prepared by the Senatus, was submitted and approved.

On the recommendation of the Senatus, the Court approved of a scheme of courses suitable for demobilised men who propose to settle in the Colonies.

It was resolved, subject to the approval of the Senatus, and to the co-operation of the Town Council, to invite the British Association to hold their meeting in 1921 in Edinburgh.

The Court appointed Lieut.-Col. F. J. M. Stratton, D.S.O., Cambridge, as External Examiner in Astronomy, and Mr D. P. Fleming, Advocate, as External Examiner in Forensic Medicine.

Various reports by the Finance and Works Committees were submitted and approved.

MONDAY, 12th May 1919.

The minutes of the last meeting were submitted and approved.

A letter was read from the Secretary for Scotland intimating an increase in the Annual Grant and a special non-recurrent grant for the financial year, 1919-20, in partial relief of losses caused by the war.

The Principal intimated that an offer of £15,000 for the purpose of endowing a lectureship in the subject of Organisation of Industry and Commerce had been made on behalf of subscribers by the Chairmen of the following bodies:—Edinburgh Chamber of Commerce, Edinburgh Merchant Company, Leith Chamber of Commerce, Leith Shipowners' Society, and The Institute of Bankers in Scotland. It was agreed to accept the offer with grateful acknowledgment.

Professor Pringle Pattison intimated his resignation, as from 30th September next, of the Chair of Logic and Metaphysics, which he had held for twenty-eight years, and the intimation was received with great regret.

Dr Harold Pringle tendered his resignation as Lecturer in Histology and Assistant to the Department of Physiology, on his appointment to the Chair of Physiology in Trinity College, Dublin.

Intimation was received that the delegates for the election of a Professor of Humanity had appointed Professor Oliffe Legh Richmond, M.A., to the Chair.

Major Ewing was appointed Lecturer in Colonial and Indian History as from 1st October next, in succession to Mr James Munro, resigned.

The Senatus reported that Professor Barger had been duly inducted on 1st May.

On the recommendation of the Senatus, the Court agreed to recognise Acadia University under section 20 of the Arts Ordinance.

On the recommendation of the Senatus, the Court agreed to recognise, under the various Ordinances for Graduation, a number of American Universities and Colleges.

On the recommendation of the Senatus, the Court granted an application by Mr Hugh Millar for renewal of recognition as an Extra-Academical Lecturer in Zoology, on change of premises.

It was reported that the Senatus and General Council had approved the Draft Ordinances for the foundation of Chairs in Zoology, Forestry, Psychiatry, and Accounting and Business Method. The Court resolved to approve the Ordinances and to transmit them to the Privy Council in terms of Section 21 of the Universities (Scotland) Act, 1889.

Various reports by the Finance and Works Committees were submitted and approved.

MONDAY, 16th June 1919.

The minutes of the last meeting were submitted and approved.

Intimation was made by the Privy Council Office that the approval of His Majesty in Council had been given to Ordinance No. 62, Edinburgh No. 23 (Foundation of Chair of German.)

On the recommendation of the Senatus, the Court agreed to renew the recognition as an Extra-Academical Teacher in Zoology of Mr L. A. L. King, St Mungo's College for Medical Students, Glasgow, on his return from military service.

On the recommendation of the Senatus, the Court agreed to recognise the teachers of Chemistry at the Derby Technical College.

On the recommendation of the Senatus, the Court agreed to institute a Diploma in Public Health, and approved of the scheme of regulations drawn up by the Senatus for the Diploma.

On the recommendation of the Senatus, the Court approved of the following additional classes in the department of Natural Philosophy: a course in Optics and a course in General Physics up to the Intermediate Honours standard, a course on Heat, and a course on Electricity up to the Advanced Final Honours standard — each of these courses to extend over one term, and the fee for each course to be two guineas.

Professor Arthur Harden, F.R.S., Lister Institute, London, was appointed Additional Examiner in connection with a thesis submitted for the D.Sc. degree in Pure Science.

Professor Ewart and Professor Ashworth were appointed to represent the University at the Bute Laboratory and Museum.

A statement of the Bacteriological Work of the City performed in the Usher Institute of Public Health during the year ended 15th May 1919 was submitted.

The Rev. J. P. Lang, Parish Minister of Stirling, was reappointed a Governor of the Stirling Educational Trust for five years.

Dr H. S. Allen, Reader in Physics, King's College, University of London, and Secretary of the Physical Society of London, was appointed Lecturer in Natural Philosophy.

Dr R. L. G. Ritchie intimated his resignation of office as Lecturer in French, on his appointment to the Chair of French in the University of Birmingham.

Various reports by the Finance and Works Committees were submitted and approved.

MONDAY, 14th July 1919.

The minutes of the last meeting were submitted and approved.

Dr Meakinse, McGill University, Montreal, was appointed to the new Chair of Therapeutics.

Dr Francis D. Boyd was appointed Moncrieff-Arnott Professor of Clinical Medicine in succession to Professor Russell, resigned.

Mr T. P. Laird, Secretary of the Society of Accountants, was appointed Lecturer in Accounting and Business Method, to become Professor when the Ordinance for the new Chair in that subject is approved.

Principal Sir Alfred Ewing was reappointed a Curator of Patronage.

Mr William Wilson, M.A., LL.B., Advocate, was appointed Secretary of the University, as from 1st October, in succession to Sir Ludovic Grant, resigned.

Ordinance Edinburgh No. 33 (Regulations as to Offices of Reader, etc.) was finally adjusted and approved, and the Court directed that it should be signed and sealed, and forwarded to the Privy Council, and to Parliament, and also to the other University Courts, in terms of Section 21 of the Universities (Scotland) Act, 1889.

On the recommendation of the Senatus, the Court resolved that, in view of the exceptionally large number of medical students already entered, not more than 130 students should be allowed to matriculate for the first time in October 1919, with a view to study in the Faculty of Medicine.

The Court fixed the fees for the Post-Graduate Courses in Theology, except the Courses in Old Testament and Semitic Languages, as follows:—2 guineas for a term course of 20 meetings; 5 guineas for three such courses; 1 guinea for a half-course of ten meetings—all students to pay a matriculation fee of one guinea, or 10s. 6d. for the summer term only.

Mr P. F. Wood, Advocate, was reappointed Lecturer in Administrative Law for a further term of five years.

The General Council transmitted the report of the Business Committee approving of the amended regulations for graduation in Arts.

It was intimated that the General Council approved of the proposal that a second half-course in Accounting and Business Method should be provided in Group C of the Regulations for the B.Com. Degree.

An application from the Workers' Educational Association for the use of rooms within the University Buildings, for the purposes of their classes in the winter session, 1919-20, was granted.

A draft Statistical Report, 1917-18, to the Secretary for Scotland was submitted and approved.

Various reports by the Finance and Works Committees were considered and approved. The Court resolved to proceed with additional buildings for Anatomy, and approved plans for a new Laboratory of Chemistry.

APPENDIX.

UNIVERSITY ROLL OF HONOUR AND RECORD OF WAR SERVICE.

Active steps are being taken in the preparation of a Roll of Honour and Record of War Service, of those Members of the University—Graduates, Officials, Past and Present Students—who have served in His Majesty's Forces and in other capacities. A collection of photographs of those of the above who have fallen is also being formed. It is hoped that all the information required may soon be to hand, and that the volume will be ready for publication early in 1920.

Pro Patria*

KITCHENER, FIELD-MARSHAL THE RIGHT HON. EARL, Lord Rector of the University. Drowned in the sinking of H.M.S. *Hampshire*, 5th June 1916.

DONALDSON, SIR H. F., Technical Adviser, Ministry of Munitions, former research student. Drowned in the sinking of H.M.S. *Hampshire*, 5th June 1916.

Adamson, R. T., M.A., Lieut., Royal Scots. Killed in action, April 1917.
Ainger, Herbert Cecil, science student, 2nd Lieut., 3rd Royal Scots, attd. R.A.F. Killed in action, 4th October 1917.

Ainslie, Archibald, medical student, 2nd Lieut., K.O.S.B. Killed in action, 23rd April 1917.

Aiton, William, M.A., 2nd Lieut., Rifle Brigade. Killed in action, 21st March 1918.

* In this List, T. = Territorial Battalion; S.R. = Special Reserve; R. = Regular Army. Officers not otherwise described hold Temporary rank.

- Alexander, J. A. E., science student, Lieut., H.L.I. Killed in action, August 1915.
- Alexander, T. M., former student, Lieut., K.O.S.B. (T.). Killed in action, 12th July 1915.
- Alexander, Thomas Malcolmson, medical student, 2nd Lieut., R.A.F. Killed in action, 17th August 1918.
- Allan, H. G., divinity student, Y.M.C.A. work. Died on service, April 1915.
- Allan, J. G., arts student, 2nd Lieut., 9th Gordons. Killed, 25th September 1915.
- Allen, Stephen Dexter, arts student, 2nd Lieut., 3rd Bedfords. Killed in action, 27th August 1918.
- Allison, James, former student, 2nd Lieut., Royal Scots. Killed in action, 20th September 1917.
- Allison, T., former student, Capt., Cameron Highlanders (T.). Killed in action, 18th May 1915.
- Anderson, A. D., M.A., 2nd Lieut., Grenadier Guards. Killed in action, 7th November 1918.
- Anderson, David, medical student, Pte., 1/5th Royal Scots (M. G. Section). Killed, 2nd May 1915.
- Anderson, James, M.A., 1st Lieut., 10th Scottish Rifles. Died on service, 20th August 1916.
- Anderson, Robert B., W.S., Lieut., 4th K.O.S.B. Killed in action, 19th April 1917.
- Anderson, S. S., M.A., Lieut., Royal Scots Fusiliers. Killed in action, 30th December 1915.
- Anderson, William Stewart, M.A., Gunner, R.F.A. Killed in action.
- Andrew, William Dickie, law student, 2nd Lieut., 1/10th Royal Scots. Killed, 22nd March 1918.
- Angus, Stewart, B.Sc., 2nd Lieut., R.E. Killed in action, 1st July 1916.
- Archibald, James, M.A., Corporal, H.L.I. Died of wounds, 26th August 1918.
- Armit, Napier (Military Cross), law student, Captain, 16th Royal Scots. Killed, 4th August 1916.
- Armstrong, H. Leslie, M.A., LL.B., Lieut., 4th K.O.S.B. Killed, April 1918.
- Armstrong, H. L. W., former law student, 2nd Lieut., Somerset L.I. Killed in action, December 1915.
- Aubel, Willy van, arts student, Adjutant, Belgian Army. Killed in action, October 1916.
- Austin, J. H. E., medical student, Col., A.M.S. Died on service, 21st April 1917.
- Bain, J. M., M.A., B.Sc., 2nd Lieut., Scottish Rifles. Killed in action, July 1916.
- Baker, Alfey Parke, law student, 2nd Lieut., 2nd H.L.I. Killed in action, 27th August 1917.

- Balfour-Melville, J. E., C.A., 2nd Lieut., 3rd, attached 2nd, Black Watch. Killed in action, 25th September 1915.
- Balmain, Roy Frederick (Military Cross), medical student, Captain, R.F.A. Died of wounds, 1st October 1918.
- Banks, Charles, medical student, Pte., Seaforth Highlanders. Killed in action, 12th October 1916.
- Bannerman, R. G., arts student, 2nd Lieut., R.F.A. Killed in action, 25th July 1916.
- Barclay, Ivan Curror Christie, medical student, Surgeon-Probationer, R.N.V.R., H.M.S. *Mary Rose*. Killed, 17th October 1917.
- Barrie, C. D. O., M.A., Cpl. London Scottish. Killed in action, 1st July 1916.
- Barrie, W. C. O., M.A., Lieut., Black Watch (T.). Killed in action, 14th October 1916.
- Barron, James, arts student, Major, Cameron Highlanders. Died of wounds, October 1915.
- Bartleman, Thomas Edward, C.T.C., 2nd Lieut., Seaforth Highlanders. Killed, 6th September 1917.
- Baxter, Alexander Kidd, M.O., War Office Emigration Agency, Wei Hai Wei. Died on service, 14th March 1918.
- Baxter, Angus Cameron, science student, Lieut., Cameron Highlanders. Killed, 31st July 1917.
- Bean, Harold K., M.D., Lieut.-Col., A.M.S. Died on service, 29th September 1916.
- Beatty, Guy, M.B., C.M., M.O., West African Medical Staff. Died on service, 7th February 1916.
- Bedell-Sivright, D. R., M.B., Ch.B., Fleet-Surgeon, R.N. Died on service, September 1915.
- Begg, Charles Mackie, M.D., C.B., C.M.G. (Croix de Guerre), Colonel and D.D.M.S., New Zealand Medical Corps. Died on service, 2nd February 1919.
- Begg, Robert Burns, M.A., Colonel, General Staff, War Office. Died on service, 8th January 1918.
- Beilby, J. H., M.B., C.M., Capt., R.A.M.C. (T.). Killed in action, 23rd April 1916.
- Bell, Alfred Herbert, C.A., Capt., 11th Royal Scots. Killed, March 1916.
- Bell, James A. T., M.B., C.M., Capt., New Zealand Medical Corps. Died on service, 29th December 1914.
- Bell, J. M., C.A., Capt., 9th Black Watch. Killed, 25th September 1915.
- Bell, T. H. S., M.B., Ch.B., Capt., R.A.M.C. (S.R.). Killed in action, 1st October 1915.
- Bentley, C. A. C., former medical student, Capt., Royal Warwickshire Regiment (R.). Killed in action, 23rd October 1914.
- Best, Stephen W., law student, Lieut., South Wales Borderers. Killed, 30th April 1917.
- Beveridge, D. A. (B.A.), law student, 2nd Lieut., R.F.A. Died on service, 13th September 1915.

- Bezindenhout, Peter H. S. (Military Cross), medical student, 2nd Lieut., R.F.A. Killed in action, 1917.
- Bingham, John Warnock, M.B., Ch.B., Capt., R.A.M.C., 10th F.A. Died 1919.
- Binks, Herbert Walter, M.B., Ch.B., Capt., R.A.M.C. Died, October 1918.
- Binning, W. B., medical student, Lieut., Scottish Rifles. Died of wounds, 24th April 1916.
- Birnie, Robert, M.A., B.Sc., Pioneer, R.E. Died of gas poisoning, 28th June 1916.
- Black, Andrew, arts student, Pte., Seaforth Highlanders. Killed in action, 9th April 1917.
- Black, D. C. (Military Cross), M.A., LL.B., Capt., Canadian Infantry. Killed in action, 28th April 1917.
- Blair, Edward James (Military Cross), M.B., Ch.B., Capt., R.A.M.C. Killed in action, April 1917.
- Blair, John, M.A., B.Sc., Capt., 8th D.L.I. Died of wounds, 12th October 1918.
- Blair, P. A. (C.A.), Capt., 9th Royal Scots. Killed, 25th April 1917.
- Blandy, Gurth S. (Military Cross), M.D., Capt., R.A.M.C. Died of wounds, May 1917.
- Bogle, G. V., B.A., M.B., Ch.B., Capt., New Zealand Medical Corps. Killed in action, 17th September 1916.
- Booth, Patrick Dick (D.S.O., M.C.), B.Sc., Capt., R.F.A. Killed, 1st December 1917.
- Boswall, Jas. D. (W.S.), former law student, Capt., Seaforth Highlanders. Killed in action, 15th June 1915.
- Bow, J. M., law student, Pte., 10th Batt. Canadian Expeditionary Force. Killed in action, 15th August 1917.
- Bowhill, James Sholto Elliot, C.A. Died of wounds.
- Brash, James (D.S.O., M.C.), M.A., Capt., Seaforth Highlanders. Died of wounds, 9th November 1918.
- Bremner, George, B.Sc., 2nd Lieut., 80th Field Company, R.E. Killed.
- Brink, Johannes H., medical student, Lieut., R.F.A. Killed, April 1917.
- Brock, George Selby, M.B., Ch.B., Capt., I.M.S. Died on service, 12th October 1918.
- Brook, Alexander (W.S.), M.A., Lieut.-Col., Royal Scots (T.). Died of wounds, 21st May 1915.
- Brown, Archibald Campbell, law student, Lieut., R.F.A. Killed, 27th May 1918.
- Brown, D. D., M.A., divinity student, 2nd Lieut., Royal Scots. Killed in action, September 1915.
- Brown, Donald Morton, arts student, Lieut., 9th Camerons. Killed, 17th October 1918.
- Brown, G. L., medical student, Lieut., 1st L.N.Lancs. Killed, 15th November 1917.

- Brown, I. M. (M.R.C.S. and L.R.C.P.), former medical student, Capt., R.A.M.C. Killed in action, 15th November 1916.
- Brown, John, M.A., 2nd Lieut., 12th H.L.I. Died of wounds, 26th March 1918.
- Brown, William, M.A., Lieut., 6th Royal Scots. Killed, 11th August 1918.
- Brown, W. S., law student, Capt., 3rd North Staffs. Killed, 14th October 1918.
- Brownlie, William (Military Cross), M.B., Ch.B., Capt., R.A.M.C. Killed, 25th March 1918.
- Bruce, A. C. A., science student, Capt., A.S.C. Killed, 23rd April 1916.
- Bruce, J. R., M.A., LL.B., Major, Royal Scots. Killed in action, 1st July 1916.
- Bruce, V. C., LL.B., Lieut., Gordon Highlanders. Killed in action, 26th March 1916.
- Brydon, J. E., M.B., Capt., R.A.M.C. Died of gas poisoning, 27th June 1917.
- Buchanan, R. Brendon, medical student, 2nd Lieut., Royal Scots Fusiliers. Killed in action, 20th June 1915.
- Buncle, R. M., medical student, 2nd Lieut., R.F.A. Died of injuries, 16th October 1915.
- Burgh, Edward Henry (Military Cross), medical student, Lieut., R.F.A. Died of wounds, 4th January 1918.
- Burns, J. Rattray (Military Cross), S.S.C., Lieut., R.A.F. Accidentally killed, June 1918.
- Burns, Richard M. (W.S.), former law student, Pte., R.S. Fusiliers. Killed in action, March 1915.
- Burton, Alexander Brown (Military Cross), M.A., B.Sc., Capt., 14th H.L.I., attached 13th E. Surrey. Missing since 9th April 1918, now presumed killed.
- Caird, Ernest Thomson, O.T.C., 2nd Lieut., 11th Royal Scots. Killed, 24th March 1918.
- Cairns, G. M. (W.S.), former student, 2nd Lieut., Black Watch. Killed in action, 13th November 1916.
- Cairns, William Anderson, science student, Lieut., 15th, attached 17th, Royal Scots. Killed, 30th September 1918.
- Calvert, William Hall, M.D., Lieut., R.A.M.C. Killed, 16th June 1917.
- Cameron, James Hunter, medical student, Lieut., 9th Black Watch. Killed, 25th September 1915.
- Cameron, J. M., arts student, 2nd Lieut., R.F.A. Killed, 10th May 1915.
- Cameron, John Hunter, B.Sc., Indian Regiment. Killed.
- Cameron, Robert Allan, M.A., Sergt., 7th Camerons. Killed, Sept. 1915.
- Cameron, W. M., M.A., Lieut., Cameron Highlanders (S.R.). Died of wounds, 27th October 1915.
- Campbell, Alexander, M.A., Gunner, R.G.A. Died on service, 9th Nov. 1918.

- Campbell, A. C. P., arts student, Lieut., East Surrey Regt. Killed in action, 28th September 1915.
- Campbell, Daniel G., law student, Capt., Canadians. Killed, 9th April 1917.
- Campbell, Donald, M.A., M.B., Lieut., R.A.M.C. Killed in action, 17th February 1915.
- Campbell, E. J., medical student, Lieut., A. and S. Highlanders. Died 21st February 1917.
- Campbell, Robert Burns, science student, Lieut., 5th K.O.S.B. Killed in action, 3rd May 1917.
- Campbell, R. G., law student, Capt., Seaforth Highlanders. Died on service, 1st February 1915.
- Campbell, W. B., M.A., 2nd Lieut., K.O.S.B. Killed in action, 19th April 1917.
- Capps, F. A., former student, Surgeon, H.M.S. *Defence*. Killed in action, 31st May 1916.
- Carmichael, Andrew, arts student, 2nd Lieut., K.O.S.B. Killed, Oct. 1917.
- Carmichael, A. G., medical student, 2nd Lieut., Cameron Highlanders. Killed in action, April 1917.
- Carnoghan, James, law student, 2nd Lieut., 12th Scottish Rifles. Wounded and missing, 23rd October 1916.
- Cathcart, F. J., science student, 2nd Lieut., R.F.A. Killed, 3rd June 1916.
- Cattanach, John, M.A., M.B., Ch.B., Lieut., R.A.M.C. Died of wounds, July 1915.
- Center, William Rudolph, M.B., C.M., Fleet-surgeon, R.N. Killed in sinking of H.M.S. *Russell*.
- Cesari, S. M. F., M.B., Capt., R.A.M.C. Killed in action, 4th October 1915.
- Chalker, Eric, science student, 2nd Lieut., R.F.A. Killed in action, 20th July 1916.
- Charles, John James Percival, M.B., Ch.B., Capt., R.A.M.C. Died of wounds, 6th October 1917.
- Cheyne, Harry (W.S.), former law student, Major, R.F.A. (T.) Killed in action, 10th July 1917.
- Chilton, Frank, medical student, Lieut., A. and S. Highlanders. Killed, 4th June 1915.
- Christie, Allan Leslie, M.B., Ch.B., Lieut., R.A.M.C. Died, 1919.
- Clark, Charles Inglis, B.Sc., Capt., R.A.F. Died of wounds, 6th March 1918.
- Clark, George Mackay, medical student, A/Capt., 4th Royal Scots. Killed, 12th November 1917.
- Clark, James, C.B., LL.B., K.C., Lieut.-Col., A. and S. Highlanders (T.). Killed in action, 10th May 1915.
- Clark, Jas. Smith, M.A., LL.B., 2nd Lieut., Gordon Highlanders. Killed in action, 3rd May 1917.
- Clark, John, M.B., Capt., R.A.M.C. Killed, 18th September 1915.
- Clark, John, M.D., Capt., R.A.M.C. Killed in action, January 1916.

- Clarke, I. A. M.-M., M.B., Capt., R.A.M.C. (S.R.). Killed in action, 16th November 1916.
- Cleghorn, Allan James, arts student, 2nd Lieut., 11th, attached 1st, Gordon Highlanders. Died of wounds, 7th September 1916.
- Cleghorn, Herbert Stewart, B.Sc., Capt., R.E., attached R.F.C. Died of wounds, 2nd September 1917.
- Clement, H. A., science student, 2nd Lieut., Black Watch. Killed in action, 3rd May 1917.
- Clow, T. H., M.A., Pte., Royal Scots (T.). Killed in action, June 1915.
- Cochrane, G. K. H., arts student, 2nd Lieut., Gurkha Rifles. Killed in action, 25th March 1917.
- Cole, R. P., medical student, 2nd Lieut., H.L.I. Killed in action, 20th May 1917.
- Constable, D. O., M.A., Lieut., Grenadier Guards. Killed in action, 25th September 1916.
- Cook, Cecil Haddon, medical student, 2nd Lieut., Manchester Regiment. Killed, 22nd October 1917.
- Cooper-Marsdin, A. C., D.D., Chaplain. Died, 16th August 1918.
- Cotterill, Denis, M.B., Ch.B., Capt., R.A.M.C. Died on service, 2nd December 1918.
- Coulthurst, Robert Allan, arts student, Gunner, R.F.A. Discharged medically unfit, 1st August 1916; died, 26th September 1918.
- Coutts, John Kerr, law student, L.-Cpl., 15th Royal Scots. Killed, 1st July 1916.
- Coutts, R. D., former student, Lieut., 4th Gordons. Killed, 25th September 1915.
- Cowan, George Deas, law student, Major, 9th Royal Scots. Killed in action, 22nd April 1918.
- Cowe, Archibald, M.B., Ch.B., Capt., R.A.M.C. Killed, December 1917.
- Crabbe, John, M.A., 2nd Lieut., Royal Scots. Killed in action, 5th May 1916.
- Craig, Thomas Forrest, M.B., Capt., R.A.M.C. Died of wounds, 2nd February 1918.
- Cresswell, J. H., M.A., Pte., Royal Scots. Killed in action, 10th April 1917.
- Crocket, John, M.D., Lieut., R.A.M.C. (R.). Killed in action, 25th Sept. 1914.
- Crole, David Clement, M.B., Ch.B., Capt., R.A.M.C. Killed, April 1918.
- Cromb, D. R., M.A., 2nd Lieut., Royal Scots. Killed in action, 23rd April 1917.
- Crosbie, W. J., M.A., Cpl., R.E. Killed in action, October 1915.
- Crozier, Jas. C. B., former medical student, 2nd Lieut., Royal Munster Fusiliers (R.). Killed in action, 27th August 1914.
- Cullen, William Geoffrey Langley, law student, 2nd Lieut., 9th Royal Scots. Died of pneumonia.
- Cumming, Colin Edward, M.A., Lieut., R.F.A. Died of wounds, 24th February 1915.

- Cunningham, A. J., M.A., Lieut., R.F.A. Killed, April 1918.
- Cunningham, James Sandeman, C.A., Sergt., Royal Canadian Highlanders. Killed between 29th October and 5th November 1916.
- Cunningham, John Craigie, M.A., Sergt., P.P.C.L.I. Killed, 26th Aug. 1918.
- Cunningham, —, former medical student, Capt., R.A.M.C. Killed, November 1914.
- Curr, Thomas, M.A., B.Sc., 2nd Lieut., H.L.I. Killed in action, 4th October 1916.
- Cuthbert, D. W. H., law student, 2nd Lieut., 1st Black Watch. Died of wounds, 9th April 1917.
- Cuthbert, J. G. G., M.A., 2nd Lieut., Machine Gun Corps. Died of wounds, 19th October 1916.
- Danzig, Wm. M., M.B., Lieut., R.A.M.C. Lost at sea, 15th April 1917.
- Darbishire, A. D., University Lecturer in Genetics, Pte., A. and S. Highlanders (gazetted three days later 2nd Lieut., R.G.A.). Died on service, 26th December 1915.
- Davidson, James Eadie (D.S.O., Croix de Guerre, Chevalier de l'Ordre de la Couronne Belge), B.Sc., Major, R.G.A. Died of wounds, 16th October 1918.
- Davie, James, M.B., Capt., Australian A.M.C. Died of wounds, 6th October 1917.
- Davie, Robert Chapman, Lecturer in Botany, Capt., R.A.M.C. Died, 4th February 1919.
- Dawson, James, M.A., 2nd Lieut., Black Watch. Died on service, 2nd April 1917.
- Dea, J. T. K., M.A., Pte., A. and S. Highlanders. Killed in action, 25th April 1915.
- Deans, Harold Mackenzie, medical student, Capt., 3rd, attached 7th, K.O.S.B. Killed, 17th September 1918.
- Dewar, James Melville, M.A., Lieut., 11th Black Watch. Killed, 16th October 1918.
- Dickie, Wm., M.A., 2nd Lieut., K.O.S.B. Killed in action, 1st July 1916.
- Dobson, J. R., former medical student, Lieut., Royal Irish Fusiliers. Died of wounds, February 1917.
- Doggart, Norman Alexander, M.A., Capt., R.A.F. Died of injuries, 11th October 1918.
- Don, A. D. B. B.Sc., Lieut., R.E. Killed in action, 21st October 1916.
- Donaldson, Stuart, C.A., law student, 2nd Lieut., H.L.I. Killed, 28th September 1918.
- Doughty, Gordon Gray, M.A., 2nd Lieut., K.O.S.B. Killed, April 1918.
- Douglas, Ian Victor (Military Cross), science student, 2nd Lieut., R.F.A. Killed, 25th October 1917.
- Douglas, Ross, M.A., Lieut., 7/8th K.O.S.B. Killed, 30th August 1917.
- Dow, J. M., M.A., L.-Cpl., Black Watch. Killed in action, 29th April 1916.

- Drennan, Robert Hugh, M.B., Capt., R.A.M.C. Died on service, 26th July 1917.
- Drummond, Robert Kenneth (Military Cross and Bar), arts student, Capt., Camerons. Died of wounds, 24th July 1918.
- Drummond, William Young, M.A., 2nd Lieut. A. and S. Highlanders. Killed, 11th July 1916.
- Duncan, R. W. (L.R.C.P. & S.Ed.), former student, Capt., R.A.M.C. Killed in action, 8th March 1916.
- Dunlop, G. H. Melville, M.D., Major, R.A.M.C. Died on service, 3rd July 1916.
- Dunn, Thomas, M.A., law student, Capt., K.O.S.B. Killed in action, April 1917.
- Dunn, W. J., medical student, 2nd Lieut., K.O.S.B. Killed in action, July 1916.
- Durward, Andrew B. (Military Cross), M.A., Capt., 6th K.O.S.B. Killed, 16th October 1918.
- Dykes, J. J., former student, Capt., K.O.S.B. (T.) Killed in action, 12th July 1915.
- Edgar, John Maxwell, M.A., Capt., 4th S. Staffs. Killed, 22nd March 1918.
- Edwards, A. J. A., medical student, 2nd Lieut., Royal Scots, but attached N. Lancashire Regiment. Killed in action, April 1916.
- Elliot, Edward John, M.B., Major, R.A.M.C. Killed, 23rd May 1918.
- Everett, William, M.D., Surgeon, R.N. Drowned by torpedoing of H.M.S. *Persia*, January 1916.
- Fairweather, Primrose, M.A., Pte., 16th Royal Scots. Killed on or about 1st July 1916.
- Farquharson, Alexander M'Naughton, M.A., Signaller, 9th Royal Scots. Killed in action, 25th May 1917.
- Farquhar-Thomson, Douglas, medical student, 2nd Lieut., 10th Gordons. Killed, 13th October 1915.
- Fenton, Ebenezer, M.A., Pte., Army Service Corps. Died on service, 17th March 1916.
- Fenton, John Alfred, law student, Air Mechanic, Royal Flying Corps. Accidentally killed, 28th June 1917.
- Ferguson, Arthur Douglas, C.A., 2nd Lieut., Seaforths. Killed, 12th October 1917.
- Ferguson, G. D. (D.S.O.), M.B., Capt., R.A.M.C. Killed in action, 22nd April 1917.
- Ferguson, James, M.A., LL.B., Capt., 9th Royal Scots. Killed, 1915.
- Ferguson, John, arts student, 2nd Lieut., Scottish Rifles. Killed in action, October 1916.
- Fleming, Charles Christie (D.S.O.), M.B., Colonel and A.D.M.S., R.A.M.C. Died of wounds, 24th December 1917.
- Flett, Arthur David, C.A., 2nd Lieut., 7th Royal Scots. Killed, 9th April 1917.

- Flett, William Henry, C.A., Lieut., 6th Black Watch. Died of wounds, 19th April 1916.
- Forbes, Alexander Bruce, B.Sc., 2nd Lieut., A. and S. Highlanders. Died of wounds, 29th October 1918.
- Ford, G. T., M.A., Pte., Royal Scots (T.). Killed in action, 25th June 1915.
- Forrester, J. D., M.B., Capt., R.A.M.C. Killed in action, 13th November 1916.
- Forsyth, W., former student, Capt., Gordon Highlanders (T.). Killed in action, Oct. 1915.
- Forsyth, William Allan, science student, Capt., R.A.F. Killed, 27th June 1918.
- Foulkes, George Boyd, M.A., Capt., 6th R.S. Fusiliers. Killed, August 1916.
- Fraser, Alexander, former student, Lieut.-Col., Cameron Highlanders (T.). Killed in action, 18th May 1915.
- Fraser, George Dick, medical student, 2nd Lieut., Rifle Brigade. Died of wounds, 3rd June 1918.
- Fraser, Roland, law student, Capt., King's Royal Rifle Brigade. Killed in action, July 1916.
- Freeman, Gerald Stewart, medical student, Surg.-Prob., R.N.V.R. Killed 13th August 1916.
- Frew, John Williamson (Military Cross), M.B., Capt., R.A.M.C. Died of wounds, 8th October 1918.
- Gall, Grant, Mus.Bac., A/Capt., Royal Scots, attached R.F. Killed, 21st March 1918.
- Gall, Wm. John Reid, M.A., 2nd Lieut., R.G.A. Killed in action, April 1918.
- Galletly, Ian, law student, Lieut., R.F.A. Killed, 3rd August 1916.
- Garden, Duncan, science student, Flight Cadet, R.A.F. Accidentally killed, 24th July 1918.
- Garvie, Alexander Cockburn, medical student, 2nd Lieut., 6th Black Watch. Killed, 23rd April 1917.
- Gaudie, John Logie, law student, Pte., 1st Black Watch. Killed in action, 25th September 1916.
- Gavin, Neil Murphy (L.R.C.P. & S.Ed.), former student, Lieut., R.A.M.C. Accidentally killed, 12th March 1916.
- Geddes, A. C. B. (Military Cross), B.Sc., Major, R.N.A.S. Killed in action, April 1917.
- Gellatly, John Stewart, law student, 2nd Lieut., 9th Royal Scots. Killed, 31st July 1917.
- Gellatly, Robert, law student, 2nd Lieut., 13th Royal Scots. Killed, 23rd April 1917.
- Gemmell, Alexander, D.Sc., Capt., R.E. Died, 3rd January 1919.
- Georgeson, Dan Horace, M.A., LL.B., 2nd Lieut., 9th Seaforths. Killed, 9th March 1918.
- Gerrard, R. F., M.A., Major, R.S. (T.). Killed in action, 18th April 1917.

- Gibb, Alexander, science student, Lieut., R.F.A. Killed, 5th June 1917.
- Gibb, A. J., M.A., Cpl., R.S. Killed in action, 28th June 1915.
- Gibb, A. R., former student, Capt., R.F.A. Killed in action, 12th October 1916.
- Gibbons, Wilfrid Ernest, M.D., Capt., R.A.M.C. Died on service, 20th December 1917.
- Gibson, Reginald James, law student, 2nd Lieut., 4th Royal Scots. Killed, 28th June 1915.
- Gibson, Robert Gray Nicol (Military Cross), law student, A/Capt., 6th Royal Scots. Killed, 21st March 1918.
- Gillison, Rev. Andrew, M.A., Chaplain, Australian Expeditionary Force. Died of wounds, September 1915.
- Gilmour, David, M.B., Capt., R.A.M.C. Died on service, 19th August 1916.
- Glanvill, E. M., M.B., Capt., R.A.M.C. (R.). Killed in action, 2nd November 1914.
- Goodfellow, E. H., medical student, Lieut., R.F.A. Killed in action, 8th March 1916.
- Gordon, Alistair Campbell Miller, science student. Killed in action.
- Gordon, Reginald Glegg (D.S.O.), M.B., Major, R.G.A. Killed, March 1918.
- Gorrie, A. K., former student, 2nd Lieut., H.L.I. Killed in action, 26th April 1916.
- Gracie, W. J., science student, 2nd Lieut., N. Staffs. Regt. Killed in action, April 1917.
- Graham, H. Balfour, science student, 2nd Lieut., 7th Black Watch. Killed, 8th May 1917.
- Graham, Hugh Christison, M.A., Lieut., 8th R.S.F. Killed in action, 8th June 1917.
- Graham, Malcolm (Military Cross), M.A., Capt., Gordon Highlanders. Killed, 26th November 1917.
- Grant, Charles William, science student, Capt., 11th Royal Scots. Killed, 12th October 1917.
- Grant, Ivor Forsyth, M.A., LL.B., Capt., Lovat Scouts (T.). Died of wounds, 19th October 1915.
- Grant, Ronald Cameron, B.Sc., Lieut., R.E. Died on service, 16th October 1916.
- Grant, Thomas F. (Military Cross and Bar), medical student, 2nd Lieut., Seaforth's. Killed, 18th April 1918.
- Gray, Douglas William, science student, 2nd Lieut., M.G.C. Killed, 18th November 1916.
- Gray, Frederick Colin, M.A., Pte., A. and S.H. Killed, 15th November 1916.
- Gray, John James Elmslie, law student, Lieut., D.C.L.I. Killed in flying accident, 18th March 1917.

- Grayfoot, B. B. (I.R.C.P. & S.Ed.), former student, Col., Bombay Medical Service. Died on service, 30th September 1916.
- Green, C. L., medical student, 2nd Lieut., 11th Essex Regt.; transferred to R.A.F. Killed in action, 9th June 1917.
- Grey, P. R., science student, 2nd Lieut., Northumberland Fusiliers. Killed in action, September 1916.
- Grierson, J. C., M.A., Pte., Middlesex Regt. Died of wounds, 23rd October 1916.
- Grierson, J. G. Hamilton, former student, 2nd Lieut., Royal Scots Fusiliers. Killed in action, July 1915.
- Gunson, L. R. S., medical student, 2nd Lieut., R.G.A. Killed in action, 18th July 1916.
- Guthrie, G. W., M.B., Lieut., R.A.M.C. Killed in action, 13th November 1916.
- Guthrie, Thos. E., M.B., Capt., R.A.M.C. Killed in action, 4th July 1916.
- Gyle, E. W., 2nd Lieut., 7th Black Watch. Killed, October 1918.
- Hall, Henry, science student, Lieut., 1/1st Ayrshire R.H.A. Killed in action, 25th September 1918.
- Handyside, John, M.A., 2nd Lieut., King's Liverpool Regt. Died of wounds, 18th October 1916.
- Hardie, Frederick, M.B., Capt., R.A.M.C. Died of wounds, September 1917.
- Harding, Norman Ernest Jasper, M.B., Major, R.A.M.C. Died of cholera.
- Hardyman, John Hay Maitland (Military Cross), arts student, Lieut.-Col., 8th Somerset L.I. Killed, August 1918.
- Hare, A. B., M.A., 2nd Lieut., R.F.A. Killed in action, 31st October 1916.
- Harris, A. T., Mus.Bac., 2nd Lieut., Bedford Regiment. Killed in action, 19th March 1916.
- Harrower, William, M.A., Sergt., R.F. Killed, 1st July 1916.
- Hartley, Arthur Conning, M.D., Major, R.A.M.C. Died, 5th March 1919.
- Harvey, Alexander Scott, medical student, Lieut., Gordons. Died of wounds, 29th March 1918.
- Hawks, Aubrey Meldrum Wood, arts student, Lieut., 4th Royal Scots. Killed, 27th September 1918.
- Hayhurst, Thomas, M.B., Lieut., R.A.M.C. Drowned by the torpedoing of *H.M.S. Royal Edward*, 14th August 1915.
- Heard, F. G., former student, Lieut., R.A.M.C. Died on service, 15th March 1917.
- Heggie, David, M.A., Capt., 2/7th Royal Scots. Died on service, 23rd October 1917.
- Helm, Henry Paul Dundas, medical student, Capt., R.A.F. Died November 1918.
- Helm, John Hunter, M.B., Capt., R.A.M.C. Killed, 26th June 1916.
- Henderson, A. H. Mellin medical student, Lieut., K.O.S.B. Killed in action, 12th July 1915.

- Henderson, M. W., C.A., Lt.-Col., 9th Black Watch. Killed in action, September 1915.
- Henderson, William, M.A., 2nd Lieut., H.L.I. Killed, 9th April 1918.
- Hendry, Peter Geddes, medical student, Gunner, R.G.A. Accidentally killed, 6th February 1918.
- Hendry, Ralph Wilfrid, science student, 2nd Lieut., Royal Scots. Killed, August 1918.
- Herford, B. H., M.A., Lieut., Royal Marines. Died of wounds, May 1915.
- Higgins, Matthew T., M.A., Pte., R.S. Died from wounds, 7th July 1916.
- Hill, J. R., M.A., LL.B., 2nd Lieut., 3rd D.L.I. Killed, 2nd June 1915.
- Hindson, R. G., medical student, 2nd Lieut., R.F.A. (S.R.). Died in London four weeks after receiving his Commission, 13th Sept. 1914.
- Hislop, John, medical student, Surg.-Probationer, R.N.V.R. Killed, June 1916.
- Hobkinson, C. W., arts student, 2nd Lieut., York and Lanc. Regt. Died of wounds, 23rd August 1915.
- Holmes, Matthew, M.D., Colonel, N.Z.M.C. Died on service, 15th November 1918.
- Honnam, S. W., arts student, 2nd Lieut., 11th Black Watch. Died of wounds, July 1918.
- Hooper, A. O., M.B., Fleet-Surgeon, R.N. Killed by explosion on H.M.S. *Natal*, December 1915.
- Hopps, Hugh J., M.B., Surgeon, H.M.S. *Aboukir*. Drowned by sinking of ship in action, 26th September 1914.
- Houston, W. R., arts student, Capt., Royal Scots, but attached Royal Scots Fusiliers. Died of wounds, March 1916.
- Howie, J. H., arts student, Cpl., R.E. Died of gas poisoning, 1st September 1916.
- Huddlestons, Sidney C., M.B., 2nd Lieut., Black Watch. Killed in action, 25th January 1915.
- Huggan, Jas. L., M.B., Lieut., R.A.M.C. (R.). Killed in action, 16th September 1914.
- Huleatt, Francis Hugh (Military Cross), former student, Major, R.F.A. Died of wounds, March 1917.
- Humphreys, A. I., medical student, Lieut., R.N.V.R. Killed in action, 5th February 1917.
- Hunter, George Arnold, medical student, Lieut., M.G.C., attached Camel Corps. Died on service, 13th July 1917.
- Hunter, John, arts student, L.-Cpl., M.G.C. Killed, 26th February 1918.
- Hunter, R. G., M.A., Capt., 7th A. and S. Highlanders. Killed, 23rd April 1917.
- Hunter, R. H., M.A., Pte., King's Royal Rifles. Killed in action, 15th September 1916.
- Hunter, William Alexander Dobson, arts student, Lieut., 8th Black Watch. Killed, 1st October 1918.
- Husband, G. S. (D.S.O.), M.B., Capt., I.M.S. Killed in action, 6th March 1917.

- Husband, P. R., M.A., 2nd Lieut., Black Watch. Killed in action, 26th September 1916.
- Hutchison, Thomas, divinity student, 2nd Lieut., 11th H.L.I. Killed, 20th May 1916.
- Hutchison, Thomas W., C.A., Capt., 10th Royal Scots. Died as result of accident, 22nd November 1915.
- Hutton, W. F., science student, 2nd Lieut., Black Watch. Killed in action, 16th July 1916.
- Iles, Chas. C., M.D., Lieut., R.A.M.C. (S.R.). Died of wounds, 19th December 1914.
- Inglis, Elsie Maud (Serbian Order of the White Eagle V., Serbian Order of St Sava), M.B., Scottish Women's Hospital. Died, 26th November 1917.
- Inglis, M. P., M.B., Capt., R.A.M.C. Killed in action, 17th Sept. 1916.
- Ireland, James Reginald, science student, 2nd Lieut., A. and S.H. Killed, November 1916.
- Irvine, Robert Charles, M.B., Major, R.A.M.C. Died, 10th November 1918.
- Irvine, Thomas Walter, M.B., Lieut.-Col., I.M.S. Died, 26th January 1919.
- Jack, David Tait, medical student, L.-Cpl., Royal Scots. Killed in action, 29th June 1916.
- Jennings, F. S. W., art student, Pte., Canadian Infantry. Killed in action, 6th July 1916.
- Jervis, R. N., B.Sc., Lieut., R.E. Killed in action, 5th January 1916.
- Johns, Frederick Noel (Military Cross), M.B., Major, N.Z.M.C. Killed, 25th August 1918.
- Johnson, Fred M., M.D., Major, Australian Army Medical Corps. Killed in action, 29th November 1915.
- Johnston, Robert, former student, Lieut., R.A.M.C. Killed in action, 27th May 1916.
- Johnstone, J. T., B.Sc., Lieut., Border Regt. Killed in action, 29th September 1916.
- Jolly, J. S., M.A., Sergeant, Royal Scots (T.) Killed in action, July 1916.
- Jones, George William, M.A., B.Sc., LL.B., Capt., R.A.F. Died, 4th November 1918.
- Keith, George Elphinstone, M.B., Capt., R.A.M.C. Died, 6th December 1918.
- Kellie, John, M.A., B.D. Killed, 31st July 1917.
- Kemp, J. Ogilvie, M.A., LL.B., Capt., 5th Royal Scots. Died on service, November or December 1917.
- Kennedy, Angus John Aitchison, law student, Capt., Royal Scots. Killed.
- Kennedy, J. E., M.A., law student, Lieut., Seaforth Highlanders. Killed in action, 25th September 1915.
- Ker, Malcolm Albert, M.B., Lieut.-Col., I.M.S. Died on service, 24th February 1915.

- Kerr, George Stanley, medical student, Pte., 5th Royal Scots (T.). Killed in action, 22nd August 1917.
- Kilpatrick, Robert Fyfe, C.A., Pte. Died of wounds.
- Kincaid, Andrew Duncan, medical student, 2nd Lieut., 8th Black Watch. Died of wounds, 22nd March 1918.
- Kincaid, James Brown, M.A., Lieut., 13th Royal Scots. Killed, 23rd April 1917.
- King, W. G., former student, 2nd Lieut., R.S.F. Killed, 6th July 1916.
- Kinmont, John C., law student, Capt., Camerons and Tank Corps. Killed, 18th November 1917.
- Kirkland, William Harrison Cameron, M.A., LL.B., Capt., 7th Camerons. Killed, 1915.
- Kuny, Simon Alexander, M.B., Capt., R.A.M.C. Died, 17th Oct. 1918.
- Laidlaw, J. L., medical student, 2nd Lieut., A. and S. Highlanders. Died of wounds, July 1916.
- Laing, George, arts student, 2nd Lieut., Royal Scots. Killed.
- Laing, James McDougall, science student, Lieut., M.G.C. Killed, 23rd March 1918.
- Lamb, John McNair, arts student, 2nd Lieut., R.F.A. Killed, 4th Nov. 1918.
- Landells, T. B., arts student, Signalling Sergt., R.S. Killed in action, 1st July 1916.
- Lascelles, Arthur Moore (V.C., M.C.), former student, Capt., 3rd D.L.I., attached 15th D.L.I. Killed in action, 7th November 1918.
- Latta, Alexander James Jopp, arts student, 2nd Lieut., R.F.A. Killed, 5th August 1916.
- Latta, Robert William Campbell, law student, 2nd Lieut., 2nd Seaforths. Killed, October 1917.
- Law, J. D., M.A., B.Sc., Pte., R.S.F. Killed in action, 23rd April 1917.
- Lawrence, E. W., M.B., Capt., R.A.M.C. (S.R.). Killed in action, 10th July 1916.
- Lawson, David, M.A., Sergt., 16th Royal Scots. Presumed killed, 1st July 1916.
- Leckie, John (Military Cross), arts student, Major, M.G.C. Died of wounds, 29th August 1918.
- Levack, G. M., M.B., Capt., R.A.M.C. Killed in action, 7th October 1916.
- Lewis, C. W., M.B., Surgeon, H.M.S. *Queen Mary*. Killed in action, 31st May 1916.
- Liddle, William, M.A., W.S., Capt., 9th Royal Scots. Died on service, 27th September 1918.
- Lindsay, David Paton, M.B., Capt., R.A.M.C. Died on service, 2nd December 1918.
- Linton, John Keddie, science student, Pte., 2nd Otago Infantry, 2nd Anzac Corps. Killed, 12th October 1917.
- Linzell, Stanley James (Croix de Guerre, Military Cross), M.B., Ch.B., Capt., R.A.M.C. Killed, 2nd April 1917.

- Lodge, R. Cuthbert, arts and science student, Lieut., 16th Royal Scots. Killed, 27th August 1917.
- Logie, Alexander Graham Spiers, M.B., Capt., R.A.M.C. Died, 1st Feb. 1919.
- Lorimer, James Bannerman, M.A., W.S., Capt., 8th Camerons. Killed, 3rd May 1917.
- Lothian, N. B., M.A., Pte., Canadian Highlanders. Died of wounds, 21st May 1915.
- Low, Alexander Petrie, M.B., C.M., Capt., R.A.M.C. Killed in action, 14th July 1916.
- Low, John Jackson (Military Medal, Military Cross), science student, Lieut., R.E. Killed, December 1917.
- Lowrie, George, arts student, Pte., Royal Highlanders. Killed.
- Lowson, William, M.A., LL.B., 2nd Lieut., R.S. Died of wounds, 17th November 1916.
- Lucas, Norman Carey, M.A., B.Sc., Capt., Scottish Rifles, attached Royal Irish Rifles. Died of wounds, 2nd November 1916.
- Lunan, G. H., M.B., Lieut., R.A.M.C. Killed in action, 13th May 1915.
- Lusk, Robert, M.A., Pte., 4th Royal Scots. Killed, 19th April 1917.
- Lyburn, J. J., science student, 2nd Lieut., R.F.A. Died on service, 13th October 1916.
- Lyell, David, LL.B., 2nd Lieut., Royal Scots (T.). Killed in action, July 1915.
- Lyell, James Francis Ronaldson, law and arts student, 2nd Lieut., 3rd Royal Scots. Killed, 26th November 1917.
- Lyon, Walter Scott Stuart, LL.B., Lieut., 9th Royal Scots. Killed, 8th May 1915.
- M'Caa, H. T., M.B., Ch.B., Surgeon. Died, November 1918.
- Macalister, George Howden, M.A., 2nd Lieut., 5th Royal Scots Fusiliers, attached M.G.C. Killed, 24th August 1916.
- M'Caskie, Roy White (Military Cross and Bar), B.Sc., Lieut., 6th Seaforths. Died from wounds, 5th August 1918.
- Macaskill, John, M.A., Y.M.C.A. work in France. Died, 27th March 1919.
- Macaulay, Maxwell Stanley, science student, 2nd Lieut. Killed, 7th May 1918.
- M'Caw, Hugh John, M.B., Surgeon, R.N.V.R. Died, November 1918.
- M'Clintock, Lawson Tait, M.B., Capt., R.A.M.C. Died, 11th Nov. 1918.
- M'Cormac, J. S. D., former student, Surgeon, H.M.S. *Black Prince*. Killed in action, 31st May 1916.
- M'Diarmid, John C., M.B., New Zealand M.C. Died on service, 24th March 1917.
- Macdonald, Malcolm (Edinburgh), medical student, Lieut., Black Watch. Killed in action, 10th October 1916.
- Macdonald Malcolm (Carlisle), medical student, Pte., A. and S. Highlanders. Killed in action, 13th October 1916.
- Macdonald, Murdoch Donald, arts student, 2nd Lieut., 9th Seaforths. Killed, 19th July 1916.

- Macdonald, Roderick Oswald Corderoy (Military Cross), arts student, Lieut., R.F.A., attached R.A.F. Accidentally killed, 10th August 1918.
- McEwan, G. C., arts student, 2nd Lieut., Seaforth Highlanders. Killed in action, 9th April 1917.
- McEwan, James Archibald, arts student, Signaller, M.G.C. Killed, 21st March 1918.
- McEwen, D. C. (W.S.), former law student, 2nd Lieut., R.S. Killed in action, April 1917.
- Macfarlane, A. N., M.A., Pte., South African Infantry. Killed in action in German East Africa, July 1916.
- Macfarlane, Ian, M.B., Lieut., R.A.M.C. Died, 18th July 1917.
- McGeorge, Charles James Bertram, medical student, Pte., 2nd H.A.C. Killed, 7th October 1917.
- MacGillivray, W. R. K., medical student, Pte., 1st Cameronians (S.R.). Died of wounds, 1st February 1917.
- Macgregor, Ralph A. Montgomerie, arts student, Lieut., R.G.A. Killed, 1918.
- MacIldowie, E. J. H., M.A. (B.D. Glasg.), 2nd Lieut., H.L.I. Killed in action, 1st November 1916.
- Macindoe, James Gray, M.B., Major, R.A.M.C. Died, 5th October 1916.
- McIntosh, R. R., M.A., 2nd Lieut., Cameron Highlanders (S.R.). Killed in action, 24th April 1915.
- McIver, D. J., arts student, 2nd Lieut., Cameron Highlanders. Died of wounds, 14th October 1915.
- MacIver, Duncan, science student, 2nd Lieut., Camerons. Killed, October 1916.
- McIver, James Noble, M.A., 2nd Lieut., 8th Royal Scots, attached 9th Gordons. Killed, 25th August 1917.
- McIver, Kenneth, M.A., Capt., 8th Camerons. Killed, April 1918.
- McJannet, W. R. B., LL.B., Capt., Seaforth Highlanders. Killed in action, 15th July 1916.
- MacKay, A. K., arts student, 2nd Lieut., H.L.I. Killed in action, 13th March 1916.
- Mackay, A. L., M.A., 2nd Lieut., R.S.F. Died of wounds, November 1916.
- McKay, Ian, law student, Lieut., 4th Camerons. Died on service.
- Mackay, James Alastair Culbard (Military Cross), law student, Capt., 6th Seaforths. Died, 20th July 1916.
- Mackay, Norman Nicholson, arts student, Pte., 2/6th Seaforths. Died of wounds, November 1916.
- Mackenna, Peter Fraser, LL.B., Lieut.-Col., Royal Scots Fusiliers (T.). Died, 26th November 1918.
- Mackenzie, Alick Campbell, M.A., B.Sc., Sergt., Australasian Forces. Killed, 5th April 1918.
- Mackenzie, G. A., M.A., medical student, 2nd Lieut., Gordon Highlanders. Killed in action, September 1915.

- Mackenzie, James, M.A., 2nd Lieut., Seaforth Highlanders. Killed in action, October 1915.
- Mackenzie, John, M.A., 2nd Lieut., 5th Seaforths. Killed, April 1917.
- Mackenzie, John, M.A., 2nd Lieut., R.G.A. Killed, 28th October 1917.
- M'Kenzie, John Bannerman, arts student, Corporal, 1/4th Royal Scots. Killed, 28th June 1915.
- Mackenzie, K., W.S., Lieut., 9th Royal Scots (T.). Killed in action.
- Mackenzie, L. A., B.Sc., Capt., East Lanc. Royal Engineers (T.). Died of wounds, 19th November 1915.
- M'Kenzie, William, arts student, Pre., A. and S. Highlanders. Killed in action, 12th October 1916.
- Mackie, Thomson Sinclair, M.A., Lieut., N. Staffs. Killed, 18th November 1916.
- Mackinnon, Alastair, arts student, Lieut., A. and S. Highlanders. Killed in action, 14th October 1916.
- Mackinnon, Lachlan, medical student, Lieut., Cameron Highlanders. Killed in action, June 1916.
- Mackintosh, John, LL.B., Capt., 6th Seaforths. Killed, July 1918.
- MacKnight, Dundas Simpson, M.B., Surgeon, R.N.V.R. Killed by torpedoing of H.M.S. *Britannia*, 9th November 1918.
- MacLaren, J. F., arts student, Capt., Cameron Highlanders. Killed in action, September 1915.
- M'Laren, Thos. J. (Military Cross), arts student, Capt., R.F.A. Killed, 26th January 1916.
- M'Lean, R. A., M.A., divinity student, 2nd Lieut., Seaforth Highlanders. Killed in action, November 1916.
- M'Lean, Robert A., B.Sc., 2nd Lieut., R.E. Killed, July 1916.
- MacLennan, R., former student, L.-Cpl., Royal Scots (T.). Killed in action, May 1915.
- MacLeod, Ion Keith-Falconer, M.B., Capt., R.A.M.C. Killed, 27th April 1918.
- Macmillan, Cameron, O.T.C., 2nd Lieut., 10th, attached 8th, Seaforths. Killed.
- M'Murray, John, law student, Capt., Royal Scots. Killed, October 1917.
- MacNab, Angus, B.Sc., M.B., Capt., R.A.M.C. (T.). Killed in action, 1st November 1914.
- Macnae, Robert (Military Cross), C.A., 2nd Lieut., Liverpool Regiment. Killed, 10th October 1916.
- M'Phee, Arthur David (Military Cross), science student, Capt., Cameron Highlanders. Died, 8th October 1918.
- Macpherson, Donald, B.Sc., 2nd Lieut., R.F.A. Died of wounds, 11th September 1917.
- Macpherson, James Ewan, arts student, Major, 10th Gordons. Killed.
- Macpherson, J. C. (M.A., LL.B., Aberdeen), former student, 2nd Lieut., 1st Gordon Highlanders. Killed in action, 25th September 1915.

- Macpherson, Robert Duncan Mearns, M.B., 2nd Lieut., 7th Seaforths. Killed, 25th September 1915.
- McPherson, William, arts student, Lieut., R.F.A. Killed in action, 8th May 1917.
- Macrae, Alexander William Urquhart, LL.B., W.S., Capt., 5th Royal Scots. Killed, 11th August 1918.
- Macrae, Joseph M., medical student, 2nd Lieut., 3rd Border Regiment. Killed, February 1918.
- Macrae, P. C., M.A., M.B., Capt., R.A.M.C. Died on service, March 1917.
- Macrosty, H. H., medical student, Lieut., R.F.A. Killed in action, December 1915.
- Macrury, N., former student, Lieut., Black Watch. Killed in action, 4th June 1915.
- McVicker, John W., medical student, Lieut., Liverpool Regiment. Killed in action, July 1916.
- Mair, Alan, zoology laboratory attendant, Pte., Gordon Highlanders. Died of wounds, 29th April 1917.
- Mair, W. D., M.A., Pte., R.S. Died of wounds, July 1915.
- Malcolm, W. A., M.B., Major, R.A.M.C. Died on service, 3rd October 1915.
- Manson, W. J., medical student, Signaller, Royal Scots (T.). Killed in action, June 1915.
- Marsden, James Alfred, B.Sc., Capt., R.E. Killed, 21st April 1918.
- Marshall, John, M.B., Lieut., R.A.M.C. Lost at sea, 15th April 1917.
- Martin, A. A., M.D., Major, New Zealand M.C. Died of wounds, 17th October 1916.
- Martin, John (Military Cross), former law student, Capt., Gordon Highlanders. Killed in action, April 1917.
- Matheson, George Hugh, M.A., B.Sc., 2nd Lieut., Border Regiment. Killed, 3rd December 1917.
- Matheson, James Macdonald, medical student, Lieut., R.A.M.C. Killed, 30th November 1917.
- Mathewson, George Gillespie, science student, Lieut., R.E. Killed, 27th March 1918.
- Maxwell, Wellwood, C.A. Apprentice, Lieut., London Regiment. Killed, 16th September 1916.
- Maybin, J. J., M.A., 2nd Lieut., Royal Scots. Killed in action, 14th July 1916.
- Meister, Charles Gustav Clark (Military Cross), M.A., Chaplain, A. and S.H. Killed, 18th April 1918.
- Mellis-Smith, Samuel Grant, M.A., 2nd Lieut., Indian Army. Killed 11th February 1917.
- Melrose, James Douglas Leitch, W.S., Major, Forth R.G.A. (T.). Died of wounds, 29th April 1918.
- Melville, Harry George (C.I.E.), M.D., Lieut.-Col., I.M.S. Died, 7th December 1918.

- Menzies, Arthur John Alexander (D.S.O.), M.A., M.B., Lieut.-Col., R.A.M.C. Killed, 9th August 1918.
- Mettam, Albert Edward, B.Sc., Major, Royal Vet. Coll. of Ireland, O.T.C. Died, November 1917.
- Mill, George Robertson, M.D., Staff-Surgeon, R.N.V.R. Died on service, 11th February 1918.
- Mill, J. D., medical student, 2nd Lieut., 3rd K.O.S.B. Killed, March 1916.
- Millar, Gavin, M.A., Chaplain, R.G.A. Killed, March 1917.
- Millar, Jas., M.A., 2nd Lieut., 9th Black Watch. Killed, 25th September 1915.
- Miller, Arch. I., M.B., Lieut., R.A.M.C. Killed in action, 11th March 1917.
- Miller, Henry William Watson, science student, 2nd Lieut., 6th Black Watch. Killed, 31st July 1916.
- Miller, J. E. Bruce, medical student, Lieut., Royal Irish Rifles. Died of wounds, 24th May 1915.
- Millson, Alvan Ewen, arts student, Capt., 4th Royal Fusiliers. Killed, 9th April 1917.
- Milne, James Robertson, C.A., Staff Captain, 7th K.O.S.B. Died on service, 30th October 1918.
- Milne, James William (C.I.E.), former arts student, Lieut.-Colonel, 82nd Punjabis. Died on service, 21st June 1919.
- Milroy, Eric, M.A., C.A., 2nd Lieut., 11th Black Watch. Missing, November 1916.
- Mitchell, Andrew N. (M.A.), arts student, Lieut., Royal Scots Fusiliers. Killed in action, 30th December 1915.
- Mitchell, J. D. R. (D.S.O.), W.S., Lieut.-Col., A. and S.H. Killed in action, 1st April 1918.
- Mitchell, James Thomson Rankin (D.S.O., Croix de Guerre), W.S., law student, Lieut.-Col., Royal Scots. Died of wounds, March 1918.
- Mitchell, John Halliburton, science student, Lieut., 7th Royal Scots. Died of wounds, 26th October 1917.
- Moir, A. Gifford, former student, Argyll and Sutherland Highlanders (T.). Killed in action, 25th April 1915.
- Montgomery, Robert, M.B., Lieut., R.A.M.C. Killed, 26th September 1915.
- Moodie, R. W., law student, Capt., Gordon Highlanders. Died of wounds, 16th May 1917.
- Moon, G. B., former student, Surgeon, H.M.S. *Queen Mary*. Killed in action, 31st May 1916.
- Moorhead, A. H., M.B., Brevet-Colonel and A.D.M.S., I.M.S. Died on service, March 1916.
- Moorhead, G. O., former student, S. African Imperial Force, Nyassaland Contingent. Killed in action, May 1916.
- Morison, A. A., M.B., Surgeon, H.M.S. *Indefatigable*. Killed in action, 31st May 1916.
- Morris, H., medical student, Lieut., Scottish Rifles (Cameronians) (S.R.). Died of wounds, August 1915.

- Morris, John (Military Cross), M.B., Major, R.A.M.C. Killed, 7th October 1918.
- Morris, Sydney Herbert, M.B., Capt., R.A.M.C. Died on service, 11th January 1918.
- Morrison, J. S. (D.C.M.), science student, Sergt.-Major, R.E. Died of gas poisoning, 26th September 1915.
- Morrison, William (Military Cross), M.B., Capt., R.A.M.C. Died of wounds and gas poisoning, 23rd October 1917.
- Mossman, Hugh, former student, Lieut., Yorkshire Regiment. Died on service, February 1916.
- Muir, Andrew Christison M., arts student, 2nd Lieut., 1st K.O.S.B. Killed, 27th October 1915.
- Mukerji, K. K. (Military Cross), medical student, Capt., I.M.S. Died, a prisoner of war in Turkish hands, May 1917.
- Munro, Alexander, arts student, Lieut., Scottish Rifles. Died of wounds, 5th November 1916.
- Munro, Charles, M.A., Pte., Seaforth Highlanders. Died of wounds, 17th January 1918.
- Munro, Donald G., medical student, Sergt., 14th A. and S. Highlanders. Killed, 6th September 1916.
- Munro, H. F., former student, Capt., Seaforth Highlanders. Killed in action, September 1915.
- Munro, John, former law student, Lieut., Canadian Infantry. Killed in action, April 1917.
- Munro, John Sutherland, M.B. Died on service, July 1917.
- Munro, T. M., M.A., 2nd Lieut., Seaforth Highlanders. Killed in action, October 1915.
- Murray, John Robertson, law student, Lieut., 9th Seaforths. Died of wounds, 18th September 1917.
- Murray, Peter Herbert, arts student, L.-Cpl., 1st Seaforths. Died of wounds, 9th November 1917.
- Murray, Robert M'Diarmid (Military Cross), arts student, Lieut., R.G.A. Died of wounds, 25th February 1916.
- Mylna, James G., C.A., Lieut., Lanarkshire Yeomanry. Died.
- Neil, R. D., science student, 2nd Lieut., R.S.F. Killed in action, October 1916.
- Nelson, Thomas, M.D., Assistant Commissioner, No. 3 District St John's Ambulance Brigade. Died, 4th March 1918.
- Ness, James, science student, Pte., 1/7th Gordons. Killed, September 1917.
- Newbery, R. F. T., M.B., Lieut., R.A.M.C. Killed in action, 14th July 1916.
- Nicholson, Geoffrey Shield Alex., arts student, 2nd Lieut., Black Watch. Died of wounds, 22nd August 1917.
- Nicol, Andrew, arts student, 2nd Lieut., K.O.S.B. Killed in action, 27th May 1916.
- Nicol, David, medical student, Capt., A. and S.H. Killed, 25th Nov. 1917.

- Nicol, G. M., arts student, 2nd Lieut., Scottish Rifles (Cameronians). Killed in action, September 1915.
- Nisbet, John, M.A., 2nd Lieut., Royal Scots. Killed in action, 24th April 1915.
- Nisbet, Pollok Sinclair, C.A., Lieut., M.G.C., 2nd Canadians. Killed, 2nd June 1916.
- Noble, J. D., M.B., Capt., R.A.M.C. (T.). Killed by accident, 12th October 1914.
- Norton, Henry Hall, M.A., Pte., R.A.M.C. Died of wounds, 27th January 1916.
- Oliver, G. B., science student, 2nd Lieut., R.F.A. Killed in action, July 1916.
- Orme, J. M. (Military Cross), M.A., M.B., Capt., R.A.M.C. (S.R.). Died as result of accident, 3rd April 1917.
- O'Sullivan, J. A. H., science student, 2nd Lieut., H.L.I. Killed in action, 28th June 1915.
- Pagan, George Hair, arts student, Lieut., Black Watch. Killed, August 1916.
- Paisley, Thomas, former student, Lieut., Scottish Rifles (Cameronians). Killed in action, October 1915.
- Palmer, Hugh Salisbury, M.B., Capt., R.A.M.C. Died of wounds, 25th April 1918.
- Park, Frederick Andrew Ketchen, medical student, Lieut., M.G.C. Killed, 3rd October 1918.
- Paterson, J. M. S., M.A., Pte., Gordon Highlanders (T.). Killed in action, April 1915.
- Paterson, Norman Keith, M.A., Lieut., R.F.A. Killed, 28th June 1916.
- Paterson, R. S., arts student, Lieut., R.F.A. Killed in action, March 1915.
- Patrick, F. A., science student, Pte., Royal Scots (T.). Killed in action, 12th April 1915.
- Patrick, John Bonthorne, arts student, 2nd Lieut., 1/4th K.O.S.B. Killed, July 1915.
- Patten, Murray Gladstone (Military Cross), arts student, Capt., 9th Northumberland Fusiliers. Killed, 14th April 1918.
- Pattison, Peterswald, M.B., Capt., R.A.M.C. Died of wounds, 22nd February 1916.
- Pender, H. G. G., science student, 2nd Lieut., Gordon Highlanders. Killed in action, 13th March 1915.
- Pennycook, Alexander, arts student, Cpl., 12th Royal Scots. Died, a prisoner in Germany, 16th October 1918.
- Philip, Andrew, M.D., Lieut., R.A.M.C. Died on service, 12th May 1915.
- Philips, Abraham Zadock, M.D., Capt., R.A.M.C. Died, 24th October 1917.
- Pinkerton, John, M.A., B.D., L.-Cpl., R.S. Killed in action, October 1916.
- Pirie, George Stephen, M.B., Capt., R.A.M.C. Killed, 24th July 1917.
- Pool, John N., arts student, Pte., 3rd K.O.S.B. Killed in action, 16th April 1917.

- Porter, W. G. (D.S.O.), B.Sc., M.B., Major, R.F.A. (T.). Killed in action, June 1917.
- Price, Edmund Frederick Tanney, M.B., Lecturer, 1st C. of E. Volunteers. Died on parade, 27th October 1917.
- Price, Owen Douglas, M.B., Capt., R.A.M.C. Died, 10th December 1918.
- Pringle, Arthur Stanley, LL.B., Capt., 10th Scottish Rifles. Killed in action, 26th September 1915.
- Prosser, John, M.A., LL.B., W.S., Lieut., Black Watch. Killed, 28th September 1918.
- Proudfoot, H. H., M.B., Capt., R.A.M.C. Killed in action, September 1916.
- Pryce, Arthur Meurig, M.D., Capt., R.A.M.C. Died on service, October 1916.
- Rae, J. C., B.Sc., Capt., R.F.A. Killed in action, 15th April 1917.
- Rae, Samuel, M.A., Pte., R.S. Killed in action, 1st July 1916.
- Ramsay, G. B. (mentioned in dispatches), science student, 2nd Lieut., R.E. Died on service, 27th August 1915.
- Rattray, David, law student, 2nd Lieut., R.F.A. Died of wounds, 21st September 1918.
- Rawson, Arthur, B.Sc., Capt. and Adj., 13th Black Watch. Killed, 6th October 1918.
- Reid, Alexander, C.A., 2nd Lieut., County of London Regiment. Killed, 15th February 1917.
- Reid, Arthur Stanley, M.A., Pte., 15th Royal Scots. Killed, 1st July 1916.
- Reid, Donald, medical student, 2nd Lieut., 4th H.L.I. Killed, 17th August 1917.
- Reid, George, M.A., Lieut., R.F.A. Killed, September 1918.
- Reid, William Douglas (Military Cross), M.B., Capt., R.A.M.C. Killed, October 1917.
- Richards, Hubert H. L., medical student, 2nd Lieut., 5th Connaught Rangers. Killed.
- Richardson, M. J., M.B., Lieut., R.A.M.C. Killed in action, 3rd November 1914.
- Ridley, W. R., M.B., in charge of Field Hospital in Serbia. Died in Serbia, November 1914.
- Ritchie, Charles A., medical student, Cadet, Artillery Unit, O.T.C. Died of injuries, 8th February 1915.
- Ritchie, John, C.A., Lieut., Black Watch, attached M.G.C. Killed.
- Ritchie, Richard James Wallace, medical student, Capt., H.L.I. Killed, May 1918.
- Ritchie, William, M.B., Capt., R.A.M.C. Killed, April 1916.
- Ritchie, William Hamilton, science student, Cpl., R.E. Killed, 27th February 1917.
- Ritchie, W. S., law student, 2nd Lieut., A. and S. Highlanders. Killed in action, 29th July 1918.
- Robertson, Alexander, M.A., D.Litt., Cpl., 12th York and Lancaster Regt. Presumed killed in action, 1st July 1916.

- Robertson, Alexander Brash, M.A., Pte., 2/1st Scottish Horse. Drowned by torpedoing of s.s. *Leinster* on 10th October 1918.
- Robertson, Angus Burns, M.B., Capt., R.A.M.C. Died 8th Nov. 1918.
- Robertson, A. W., former law student, Capt. Killed, August 1916.
- Robertson, J. G., arts student, 2nd Lieut., Gordon Highlanders. Killed in action, 13th November 1916.
- Robertson, Leonard Fraser, M.A., Sergt., 29th Vancouver Battalion. Died of wounds, 19th September 1916.
- Robertson-Durham, William Hugh, W.S., Capt., 10th Scottish Rifles (Cameronians). Killed in action, September 1915.
- Rodger, G. S., science student, Lieut., Leicestershire Regiment. Killed in action, January 1917.
- Rodger, M. F., LL.B., Lieut., Scottish Rifles. Killed in action, 23rd October 1916.
- Rogers, Robert Carmichael, M.A., M.B., Capt., R.A.M.C. Died of wounds, 2nd August 1918.
- Rose, William, M.A., Lieut., H.L.I. Killed in action, 11th April 1917.
- Ross, Alexander Aitken, M.B., C.M., Lieut.-Col., R.A.M.C. (T.). Died on service, November 1915.
- Ross, Andrew Beaconsfield, M.A., M.D., Lieut., 2nd Royal Irish Rifles. Killed, 6th August 1917.
- Ross, Finlay M'Fadyen (Military Cross), science student, A/Capt., 15th Royal Scots. Killed, 1st August 1918.
- Ross, G. A., M.A., Capt., Royal Scots (T.). Killed in action, 28th June 1915.
- Ross, J. A., M.A., Lieut., Seaforth Highlanders. Killed in action, 25th July 1916.
- Ross, James Graham, M.A., LL.B., 2nd Lieut., 10th Seaforths. Killed, 30th December 1917.
- Ross, James Hector, former law student, 2nd Lieut., 8th Seaforth Highlanders. Killed in action, 23rd April 1917.
- Ross, Peter, M.A., B.Sc., Capt., Royal Scots. Killed in action, 1st July 1916.
- Rouse, A. Ritchie, O.T.C., 2nd Lieut., R.F.A. Killed, September 1918.
- Rout, W. O. N., medical student, Lieut., H.L.I. Killed in action, November 1915.
- Ruddock, Edward Oliver, medical student, Sapper, New Zealand Engineers (late British Section). Died on service, 11th May 1915.
- Rule, Hugh Maclean, M.A., Pte., 2nd A. and S. Highlanders, attached Black Watch. Killed, 14th July 1916.
- Rundle, C. S., M.B., Lt.-Col., I.M.S. Died on service, 11th November 1916.
- Russell, W. B., former student, Lieut. R.S.(T.). Killed in action, May 1915.
- Sandeman, A. F., law student, Capt., 9th and 11th Border Regiment. Killed, 2nd December 1917.
- Sanders, A. M., medical student, 2nd Lieut., K.O.S.B. Died of wounds, 9th April 1917.

- Sanderson, Frederick Borthwick, medical student, Lieut., R.F.A. Killed, 1916.
- Sanson, Walter Edwin Hammond, medical student, 2nd Lieut., 9th K.O.R. Lances. Killed, 16th to 18th August 1916.
- Schäfer, T. S. H., former science student, 2nd Lieut., Northumberland Fusiliers. Killed in action, 26th September 1915.
- Scotland, David Lothian, science student, 2nd Lieut., M.G.C. Died of wounds, 5th October 1918.
- Scott, Andrew Hamilton, M.A., LL.B., 2nd Lieut., 4th K.O.S.B. Presumed killed, 3rd May 1917.
- Scott, Charles Bevers, M.A., Lieut., 54th British Columbia Regiment. Killed, 26th June 1917.
- Scott, Kenneth Mackenzie, M.B., C.M., M.D., M.O., 19th Detachment, B.R.C.S. Died, 19th February 1918.
- Scott, M. B., M.A., B.Sc., Lieut., R.S. Killed in action, April 1917.
- Scott, W. D. H., M.A., L.-Cpl., Gordon Highlanders (T.). Killed in action, 17th March 1915.
- Seougal, Alec Graham (Military Cross), M.A., Lieut.-Col., 17th Royal Scots. Killed, 18th September 1918.
- Senter, John Watt, M.B., Lieut., R.A.M.C. Died of wounds, June 1918.
- Seton, Miles Charles Cariston, M.B., Major, Australian A.M.C. Murdered, 13th January 1919.
- Shannon, John James, M.B., Capt., R.A.M.C. Killed, December 1917.
- Sharp, John Gordon, M.D., Lieut., R.A.M.C. Died, October 1917.
- Shaw, John Donald, W.S., Lieut., Royal Scots. Killed, 26th July 1918.
- Shaw, Wm. V., former student, Pte., Scots Guards. Killed in action, 18th December 1914.
- Shirlaw, Ninian F., arts student, Cpl., 14th A. and S. Highlanders. Killed, 16th May 1917.
- Simpson, Dugald Thomas, science student, Pte., 17th Black Watch. Presumed killed, 9th to 15th April 1915.
- Simpson, Harold James, arts student, Pte., 43rd Canadian Cameron Highlanders. Died of wounds, 15th May 1916.
- Singleton, Frank, arts student, Pte., R.A.M.C., 1st Welsh F.A. Died, 11th September 1918.
- Slade-King, Philip Slade, B.Sc., Lieut., 1st Norfolks. Died, 13th May 1918.
- Small, Hugh Alexander (Military Cross), (B.A.), divinity student, 2nd Lieut., 20th King's Liverpool Regiment. Killed in action, 11th July 1916.
- Small, James B., science student, Lieut., R.A.F. Killed, August 1918.
- Small, John, M.A., LL.B., Lieut., Black Watch. Killed in action, 29th April 1916.
- Small, William Alexander, science student, L.-Cpl., Royal Horse Guards. Killed, 26th September 1915.
- Smith, Charles Edgar Halton (Order of St Sava), former medical student, Capt., R.A.M.C. Killed, 16th September 1916.

- Smith, Geo. Buchanan (M.A. Glasgow), (LL.B. Aberdeen), former law student, 2nd Lieut., Gordon Highlanders (S.R.). Killed in action, 26th September 1915.
- Smith, G. P., M.A., B.Sc., Lieut., R.S. Killed in action, April 1917.
- Smith, Harry Gordon arts student, 2nd Lieut., 4th A. and S. Highlanders. Killed, 13th March 1918.
- Smith, Harry Graham, former student, Capt., R.A.M.C. Lost at sea, 14th April 1917.
- Smith, Ian Stewart, law student, Gunner, 38th Welsh Heavy Battery, R.G.A. Died of wounds, 1st July 1917.
- Smith, James, B.D., Chaplain. Killed, 15th August 1917.
- Smith, J. Montagu, medical student, Lieut., 5th Royal Scots. Killed, 2nd May 1915.
- Smith, John Rankin Donald, M.A., Lieut. Killed, 31st July 1917.
- Smith, Sidney Fraser, arts student, Lieut., R.F.A. Died of wounds, 3rd September 1917.
- Somervail, William Fulton (D.S.O., M.C.), science student, Brigade Major, 3rd Scottish Rifles. Killed, 4th October 1918.
- Spence, D. S., M.A., science student, 2nd Lieut., R.F.A. Killed in action, 13th December 1915.
- Spence, John Dick White, law student, Pte. Killed, 31st August 1916.
- Spoor, Herbert Mather (Military Cross), M.B., Capt., R.A.M.C. Accidentally killed, between 29th December 1917 and 5th January 1918.
- Sprott, D. A., medical student, Capt., 4th Border Regiment and M.G.C. Killed, 4th January 1918.
- Stalker, Daniel, M.A., Lieut., R.F.A. Died of wounds, April 1918.
- Steel, A. R., former student, Surgeon, R.N. Lost at sea, 28th February 1917.
- Steele, Robert Balfour, M.A., 2nd Lieut., R.F.C. Died of wounds, while prisoner in German hands, 22nd October 1917.
- Stevens, Norman Walter, M.B., Capt., R.A.M.C. Died on service, 27th July 1919.
- Stevenson, John Scott, science student, Lieut., 8th Royal Scots. Died of wounds, 9th October 1918.
- Stewart, Alexander Charles, M.A., Capt., Army Cyclist Corps. Killed, 12th April 1918.
- Stewart, A. V., medical student, 2nd Lieut., 4th Gordon Highlanders. Killed in action, 23rd April 1917.
- Stewart, C. E. (Military Cross). (B.A., W.S.), former law student, Capt., Durham L.I. Died of wounds, 10th April 1917.
- Stewart, Francis William, science student, 4th Engineer, S.S. *Norwegian*. Lost at sea owing to ship being mined, 13th March 1917.
- Stewart, F. A., former science student, Lieut., Durham L.I. Killed in action, 16th September 1916.
- Stewart, James Aitchison (Military Cross), former medical student, Lieut., K.O.S.B., attached R.F.C. Died of wounds, 11th October 1916.

- Stewart, James Fleming, medical student, Cpl., R.E. Killed, 28th June 1916.
- Stewart, J. J. E. B., LL.B., 2nd Lieut., R.S. Died of wounds, 12th June 1917.
- Stewart, Mungo, science student, Lieut., R.F.A. Died of wounds, February 1917.
- Stewart, N. W., medical student, Lieut., R.S. Killed in action, 23rd January 1917.
- Stewart, Robert, M.A., Lieut., K.O.S.B. Killed in action, 1st July 1916.
- Stewart, Thomas (Military Cross and Bar), arts student, Major, 8th Royal Scots. Killed, 12th September 1917.
- Strang, James Buchanan, M.A., 2nd Lieut., Liverpool Regiment. Killed.
- Straithairn, H. W., M.A., 2nd Lieut., Black Watch. Died of wounds, 16th November 1916.
- Struthers, Andrew Craig, arts student, 2nd Lieut., 12th Scottish Rifles. Killed, 14th September 1916.
- Stuart, W. G. S. (Military Cross), M.A., Capt., Cameron Highlanders. Killed in action, April 1917.
- Sturrock, William Malcolm, M.B., Lieut.-Col., R.A.M.C. Died, 21st November 1918.
- Sutherland, Anderson (Military Cross), science student, Major, R.F.A. Died of wounds, 28th October 1918.
- Sutherland, J. M., M.A., 2nd Lieut., R.S. Killed in action, 23rd April 1917.
- Swan, George Henry, science student, 2nd Lieut., 1st Royal Scots Fusiliers. Killed in action, 14th July 1916.
- Symons, Frank Albert, C.M.G. (D.S.O., M.C.), M.B., Lieut.-Col., R.A.M.C. Killed, May 1917.
- Taylor, Alfred Squire, M.B., Capt., R.A.M.C. Killed, August 1917.
- Taylor, Henry Young Cameron, M.B., Capt., R.A.M.C. Died, 25th August 1917.
- Taylor, S. G., arts student, 2nd Lieut., R.F.A. Killed in action, 21st October 1916.
- Taylor, William Currie, M.A., B.Sc., Capt., R.F.A. Died on service, 7th November 1918.
- Templeman, Charles, M.D., Capt., R.A.M.C. Died, 20th January 1918.
- Templeton, William Fowler, M.A., Capt., 4th R.S.F. Killed, 1st October 1918.
- Tennant, Alexander Smith, M.A., B.Sc., Lieut., Lancashire Fusiliers. Killed, 27th September 1918.
- Tennant, Bernard Charles (M.C. and Bar), M.D., Major, R.A.M.C. Killed, August 1918.
- Thaanum, James Conrad, M.A., 2nd Lieut., R.G.A. Died of wounds, 20th August 1915.
- Thatcher, Francis Geoffrey, M.B., Capt., R.A.M.C. Died of wounds, 30th May 1918.

- Thomson, Alexander Anderson, medical student, Pte., 4th Gordons. Killed, 9th April 1917.
- Thomson, A. G., law student, Capt., Royal Scots. Killed in action, 26th September 1917.
- Thomson, A. W., arts student, 2nd Lieut., N. Staffs. Regt. Killed in action, 30th May 1917.
- Thomson, Charles, C.A., L-Sergt., Royal Scots. Killed.
- Thomson, Francis Wishart, law and arts student, Lieut., 7th Royal Scots (T.). Killed in action, 28th June 1915.
- Thomson, Frank Wyville, M.A., M.B., C.M., D.P.H., Lieut.-Col., R.A.M.C. Died on service, 27th May 1918.
- Thomson, Haldane, B.Sc., Lieut., 12th Scottish Rifles, attached K.O.S.B. Killed, June 1915.
- Thomson, John Snaddon, M.A., Pte., 2nd Gordons. Killed, 4th October 1917.
- Thomson, John William, M.A., B.Sc., Lieut., R.G.A. Died of pneumonia, 4th February 1919.
- Thomson, S. J. K., B.Sc., 2nd Lieut., Royal Scots Fusiliers. Died of wounds, October 1915.
- Thornley, A. L., M.B., Lieut., R.A.M.C. Died on service, April 1916.
- Thornton, George Muir, LL.B., Capt., 10th Seaforths. Killed, 22nd August 1917.
- Thornton, L. I. L., LL.B., Indian Cavalry. Killed in action, September 1915.
- Tod, William Lennox, science student, Capt., 15th Royal Scots. Died of wounds, 29th April 1917.
- Todrick, Thomas (W.S.), former student, Capt., Royal Scots (T.). Killed in action, 15th December 1914.
- Torrance, Daniel, arts student, Pte., R.M.L.I. Killed, 2nd Sept. 1918.
- Toulmin, Stewart N., medical student, Surgeon, R.N. Killed, 17th Aug.
- Tulloch, John, medical student, Pte., 9th Royal Scots. Killed, 15th September 1916.
- Turnbull, A. E., M.B., Surgeon, R.N. Reserve, H.M.S. *Cressy*. Drowned in action, 26th September 1914.
- Underhill, Thomas Edgar, M.D., Red Cross Society. Died, 8th May 1917.
- Underwood, G. M., medical student, 2nd Lieut., R.F.C. Killed in action, 6th March 1917.
- Usher, John Milne, C.A., 2nd Lieut., 9th Gordons. Killed, 1915.
- Vallance, William Fleming Moncrieff, arts student, L.-Cpl., H.L.I. Died, while prisoner in German hands, 19th August 1918.
- Varndell, C. H. E., M.A., B.Sc., 2nd Lieut., West Surrey Regiment. Killed in action, 13th March 1916.
- Vassie, Richard, medical student, Lieut., 12th Cheshire Regiment. Died on service, April 1918.
- Verteuil, Fernand Louis de, M.D., Surgeon, H.M.S. *Good Hope*. Drowned in action, 1st November 1914.

- Vickers, Robert, M.A., B.Sc., 2nd Lieut., R.F.A. Died of wounds, 10th December 1917.
- Vivers, John, M.A., Capt., Royal Scots Fusiliers. Killed in action, November 1915.
- Waddell, James Hamilton, arts and science student, 2nd Lieut., 11th Royal Scots. Killed, 5th June 1917.
- Wade, G. H., former student, Capt., A. and S. Highlanders (T.). Killed in action, 25th April 1915.
- Waite, J. Thorp, former student, Lieut., R.A.M.C. Killed in action, 21st January 1916.
- Walker, Arthur Dight, divinity student, 2nd Lieut., 4th Manchester Regiment. Died of wounds, November 1916.
- Walker, Gideon (Military Cross and Bar), M.B., Capt., R.A.M.C. Killed, 27th November 1917.
- Walker, Robert, medical student, Surgeon Probationer, H.M.S. *Shark*. Killed in action, 31st May 1916.
- Walker, William, M.A., Capt., K.O.Y.L.I. Killed in action, 1st July 1917.
- Wallace, Andrew, M.B., Capt., 4th K.O.S.B. Killed, 12th July 1915.
- Wallace, Robert Neilson, M.B., Capt., R.A.M.C. Died on service, July 1918.
- Wallace, William, M.A., 2nd Lieut., M.G.C. Killed, 29th September 1916.
- Ward, J. S., former student, Surgeon, R.N. Lost at sea, 24th November 1916.
- Watson, Alistair Fisher, B.Sc., 2nd Lieut., 9th Black Watch. Killed, 23rd April 1917.
- Watson, D. G., M.A., M.B., Lieut., R.A.M.C. Died of wounds, 5th June 1915.
- Watson, D. M., M.A., Pte., R.S. (T.). Killed in action, June 1915.
- Watson, Jas. H. D., M.B., Surgeon, H.M.S. *Hawke*. Drowned in action, 16th October 1914.
- Watson, J. D. M., M.A., B.Sc., L.-Cpl., 9th R.S. (T.). Died on service, 19th February 1915.
- Watson, John Douglas, M.A., LL.B., Sergt., 9th Gordons. Died, April 1917.
- Watson, John Hyndman, medical student, Sergt., 15th Royal Scots. Presumed killed, 9th April 1918.
- Watson, John Mitchell, C.A., L.-Cpl., 4th Royal Scots. Killed in action in Palestine.
- Watson, Norman J., medical student, 2nd Lieut., R.F.A. Killed, June 1918.
- Watson, Thomas, former student, Pte., Royal Scots. Killed in action, June 1915.
- Watson, W. N. (Military Cross), M.B., Capt., K.O.S.B. Died of wounds, 26th May 1916.
- Watt, B. H., M.A., 2nd Lieut., Cameron Highlanders. Killed in action, September 1915.

- Watt, C. C., arts student, 2nd Lieut., K.O.S.B. Killed in action, May 1917.
- Waugh, George Noel, medical student, Capt., New Zealand V.C. Died of wounds, May 1918.
- Wedderburn, R. H. MacLagan, M.A., 2nd Lieut., 3rd Scottish Rifles. Killed, 3rd February 1915.
- Wedderspoon, Jack Henry Butcher, arts student, Lieut., R.A.F. Killed, 6th April 1917.
- Welsh, Tom (Military Cross, D.S.C.), M.B., Capt., S.A.M.C. Killed, 13th April 1917.
- Welsh, Thomas, former student, Capt., K.O.S.B. (T.). Killed in action, 12th July 1915.
- Westlake, Algernon, M.B., C.M., Major, R.A.M.C. Died, 25th May 1918.
- Westwood, James, M.A., 2nd Lieut., R.G.A. Killed in action, 25th June 1917.
- White, Alex., M.A., LL.B., Capt., Royal Scots (T.). Died of wounds, 9th September 1915.
- White, John Peregrine Robertson, M.A. Died on service, 7th October 1916.
- White, Thomas James (Military Cross), medical student, Lieut., R.F.A. Killed, November 1917.
- White, William Kenneth, law and arts student, 2nd Lieut., Scottish Rifles. Killed in action, 1917.
- Whittaker, C. B. (mentioned in dispatches), M.A., Lieut., R.S. Killed in action, July 1916.
- Whitton, David John, medical student, Surgeon Probationer, R.N.V.R. Killed, 11th February 1918.
- Whyte, Campbell Drummond, science student, 2nd Lieut., Royal Fusiliers. Killed, July 1916.
- Wilkes, R. A. C., former student, Pte., Canadian Infantry. Killed in action, 21st May 1915.
- Williamson, G. H. (Military Cross), M.A., Capt., 7th King's Royal Rifles. Killed, 12th April 1917.
- Wilson, John, M.B., Lieut., R.A.M.C. Killed in action, 9th March 1916.
- Wilson, J. Dykes, M.A., M.B., Capt., I.M.S. Died on service, 16th February 1916.
- Wilson, Marian Elizabeth, M.B., M.O., Scottish Women's Hospital, France. Died on service, 1st August 1917.
- Wilson, R. A., medical student, Capt., R.F.A. Killed in action, 13th October 1915.
- Wilson, R. F., M.A., B.D., 2nd Lieut., Gordon Highlanders. Killed in action, 13th November 1916.
- Wilson, Thomas, arts student, Pte., 9th H.L.I. Died of wounds, 4th January 1918.
- Wilson, Thomas Gillies, M.A., Corporal, 13th Royal Scots. Killed, 28th June 1916.

- Wilson, Thomas W., science student, 2nd Lieut., R.F.A., attached R.E. Killed, 1918.
- Wise, Lancelot Charles, science student, Lieut., 3rd Skinner's Horse. Killed, May 1917.
- Wise, Percy, arts student, Pte., R.A.M.C. Killed, 1st February 1918.
- Wood, Peter Brown, law student, Lieut., Army Audit Staff. Killed, 25th September 1916.
- Wood, R. E., M.B., Lieut.-Col., R.A.M.C. (T.) Died on service, 8th February 1917.
- Woodrow, William Davidson, law student, 2nd Lieut., 4th Royal Scots. Killed in action, 23rd April 1917.
- Woods, James, M.B., Major, I.M.S. Killed, 9th May 1915.
- Wyles, William W., arts student, Pte., R.F.A. Killed, 27th May 1916.
- Young, Andrew, M.A., 2nd Lieut., 3rd Scottish Rifles, attached 13th Royal Scots. Killed, 26th December 1916.
- Young, N. M., former student, Lieut., Royal Scots. (R.). Killed in action, 23rd April 1915.
- Young, William Steele, science student, Lieut., R.E. Killed, October 1917.

GENERAL RECOGNITION LIST, U.S.A.

The following is a List of Colleges and Universities approved by the Association of American Universities, 1917. Graduates from these Institutions will be admitted to Post-Graduate Courses in the University of Edinburgh, with a view to the new Ph.D. Degree. General Recognition is also granted to them in terms of the various Graduation Ordinances.

Allegheny College	Meadville, Pa.
Amherst College	Amherst, Mass.
Barnard College ¹	New York, N.Y.
Bates College	Lewiston, Me.
Beloit College	Beloit, Wis.
Boston University	Boston, Mass.
Bowdoin College	Brunswick, Me.
Brooklyn Polytechnic Institute	Brooklyn, N.Y.
Brown University	Providence, R.I.
Bryn Mawr College	Bryn Mawr, Pa.
Carleton College	Northfield, Minn.
Case School of Applied Science	Cleveland, Ohio.
Catholic University of America ²	Washington, D.C.
Central University of Kentucky	Danville, Ky.
Clark College	Worcester, Mass.
Clarkson School of Technology	Potsdam, N.Y.

¹ Added at the meeting of the Association in November of 1917.

² Institutions marked (2) are members of the Association of American Universities.

Clark University ²	Worcester, Mass.
Coe College	Cedar Rapids, Iowa.
Colby College	Waterville, Me.
Colgate University	Hamilton, N.Y.
College of the City of New York ¹	New York, N.Y.
College of St Catherine ¹	St Paul, Minn.
College of St Elizabeth ¹	Convent Station, N.J.
Colorado College	Colorado Springs, Colo.
Columbia University ²	New York, N.Y.
Cornell College	Mount Vernon, Iowa.
Cornell University ²	Ithaca, N.Y.
Dartmouth College	Hanover, N.H.
De Pauw University	Greencastle, Ind.
Dickinson College	Carlisle, Pa.
Drake University	Des Moines, Iowa.
Drury College	Springfield, Mo.
Earlham College	Richmond, Ind.
Elmira College	Elmira, N.Y.
Fordham University	Fordham, N.Y.
Franklin College	Franklin, Ind.
Goucher College	Baltimore, Md.
Grinnell College	Grinnell, Iowa.
Hamilton College	Clinton, N.Y.
Harvard University ²	Cambridge, Mass.
Haverford College	Haverford, Pa.
Hobart College	Geneva, N.Y.
Indiana University ²	Bloomington, Ind.
Iowa State College	Ames, Iowa.
Johns Hopkins University ²	Baltimore, Md.
Kenyon College	Gambier, Ohio.
Knox College	Galesburg, Ill.
Lafayette College	Easton, Pa.
Lake Eric College ¹	Painesville, Ohio.
Lake Forest College	Lake Forest, Ill.
Lawrence College	Appleton, Wis.
Lehigh University	South Bethlehem, Pa.
Leland Stanford Jr. University ²	Stanford University, Cal.
Macalester College ¹	St Paul, Minn.
Marietta College	Marietta, Ohio.
Massachusetts Agricultural College ¹	Amherst, Mass.
Massachusetts Institute of Technology	Boston, Mass.
Miami University	Oxford, Ohio.
Middlebury College	Middlebury, Vt.
Mills College ¹	Oakland, Cal.
Milwaukee-Downer College ¹	Milwaukee, Wis.
Mount Holyoke College	South Hadley, Mass.
Municipal University of Akron ¹	Akron, Ohio.
New York University	New York City.

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Northwestern University ²	Evanston, Ill.
Oberlin College	Oberlin, Ohio.
Ohio State University	Columbus, Ohio.
Ohio Wesleyan University	Delaware, Ohio.
Pennsylvania State College	State College, Pa.
Pomona College	Claremont, Cal.
Princeton University ²	Princeton, N.J.
Purdue University	Lafayette, Ind.
Radcliffe College	Cambridge, Mass.
Randolph-Macon Woman's College ¹	Lynchburg, Va.
Reed College	Portland Oregon.
Rensselaer Polytechnic Institute	Troy, N.Y.
Ripon College	Ripon, Wis.
Rockford College ¹	Rockford, Ill.
Rose Polytechnic Institute	Terre Haute, Ind.
Rutgers College	New Brunswick, N.J.
Smith College	Northampton, Mass.
State College of Washington	Pullman, Wash.
State University of Iowa ²	Iowa City, Iowa.
Stevens Institute of Technology	Hoboken, N.J.
Swarthmore College	Swarthmore, Pa.
Syracuse University	Syracuse, N.Y.
Trinity College	Durham, N.C.
Trinity College	Hartford, Conn.
Trinity College ¹	Washington, D.C.
Tufts College	Medford, Mass.
Tulane University	New Orleans, La.
Union University	Schenectady, N.Y.
University of Alabama ¹	University, Ala.
University of California ²	Berkeley, Cal.
University of Chicago ²	Chicago, Ill.
University of Cincinnati	Cincinnati, Ohio.
University of Colorado	Boulder, Colo.
University of Georgia	Athens, Ga.
University of Illinois ²	Urbana, Ill.
University of Kansas ²	Lawrence, Kan.
University of Maine	Orono, Me.
University of Michigan ²	Ann Arbor, Mich.
University of Minnesota ²	Minneapolis, Minn.
University of Missouri ²	Columbia, Mo.
University of Nebraska ²	Lincoln, Neb.
University of North Carolina	Chapel Hill, N.C.
University of North Dakota	University, N.D.
University of Oklahoma ¹	Norman, Okla.
University of Oregon	Eugene, Ore.
University of Pennsylvania ²	Philadelphia, Pa.
University of Pittsburgh	Pittsburgh, Pa.
University of Rochester	Rochester, N.Y.

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University of South Dakota	Vermillion, S.D.
University of the South	Sewanee, Tenn.
University of Tennessee	Knoxville, Tenn.
University of Texas	Austin, Texas.
University of Vermont	Burlington, Vt.
University of Virginia ²	Charlottesville, Va.
University of Washington	Seattle, Wash.
University of West Virginia ¹	Morgantown, W. Va.
University of Wisconsin ²	Madison, Wis.
University of Wooster	Wooster, Ohio.
Vanderbilt University	Nashville, Tenn.
Vassar College	Poughkeepsie, N.Y.
Wabash College	Crawfordsville, Ind.
Washburn College ¹	Topeka, Kan.
Washington and Jefferson College	Washington, Pa.
Washington and Lee University ¹	Lexington, Va.
Washington University	St Louis, Mo.
Wellesley College	Wellesley, Mass.
Wells College	Aurora, N.Y.
Wesleyan University	Middletown, Conn.
Western Reserve University	Cleveland, Ohio.
Whitman College ¹	Walla Walla, Wash.
William Jewell College	Liberty, Mo.
Williams College	Williamstown, Mass.
Worcester Polytechnic Institute	Worcester, Mass.
Yale University ²	New Haven, Conn.

THE CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND.

Regulations for Assistance in the Payment of Class Fees in the Universities and Extra-Mural Colleges of Scotland.

I. AGE.—Applicants must be over sixteen years of age.

II. NATIONALITY.—Applicants must be of Scottish birth or extraction, or must have given two years' attendance after the age of fourteen at a school or institution under inspection of the Scottish Education Department.

III. PRELIMINARY EDUCATION.—Applicants qualified under the two previous regulations, who have been pupils of schools under the Scottish Education Department, will be eligible for assistance in the payment of class fees, if they have obtained the Leaving Certificate of the Department, provided that it bears evidence of such preliminary education as is required by the Universities for their respective graduating curricula, or, if it does

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not, provided that it has been supplemented by such passes, either in the Scottish Universities Preliminary or other Examination, as will satisfy the above requirement of the Universities.

Where applicants have not been pupils of schools under the Scottish Education Department, or where other good ground for not having obtained the Leaving Certificate can be shown, the Executive Committee have power to accept instead what they deem equivalent evidence of attainments, in the shape of passes gained either in the Scottish Universities Preliminary or other examination, provided that no applicant will be considered eligible who has to pass any further preliminary examination before completing his graduating curriculum.

IV. COURSE OF STUDY.—Applicants in the Faculties of Arts and Science must have had their course of study for each academic year approved by the University Adviser of Studies.

V. DEGREE EXAMINATIONS.—Applicants must have passed the graduation examinations belonging to the previous stage of their curriculum before becoming eligible for assistance in the payment of fees of classes belonging to a further stage.

VI. REPORTS ON ATTENDANCE AND WORK.—Beneficiaries come under an obligation to submit to the Executive Committee at the end of each session particulars as to their attendance and work, any distinctions they may have gained, and any graduation examinations they may have passed.

VII. ANNUAL ALLOWANCES IN THE VARIOUS FACULTIES.—The Annual Allowances towards payment of Class Fees offered to beneficiaries by the Trust in the various Faculties are as follows:—In Arts (Ordinary), £9 for three years, and (Honours) £9 for four years, in all £27 and £36 respectively; in Science, £18 for three years, in all £54; in Medicine, £20 for four years, in all £80; in Divinity, Music, and Law (LL.B.), £7 for three years, in all £21; and in Law (B.L.), £5 for three years, in all £15. Any unexpended part of a Grant will be carried forward to the succeeding year.

VIII. ANNUAL ALLOWANCES IN COMBINATIONS OF FACULTIES.—In combinations of Faculties the allowances available for beneficiaries are:—(1) Arts and Science, two Arts Grants of £9 and three Science Grants of £15, in all £63; (2) Arts and Medicine, two Arts Grants of £9 and four Medicine Grants of £20, in all £98; (3) Science and Medicine, two Science Grants of £18 and four Medicine Grants of £20, in all £116; payment to be made in the order above stated.

Attention is specially directed to Regulation III.

Note.—Applications for payment of Class Fees to be addressed to the Secretary to the Trust, 22 Hanover Street, Edinburgh. Applicants, in writing for Application Forms or Class Lists, must name the University and Faculty in which they intend to study, and must state whether they have or have not previously obtained the benefits of the Trust.

OFFICERS' TRAINING CORPS.

The Headquarters of the Edinburgh University O.T.C. is in High School Yards, Infirmary Street, where all enquiries relating thereto should be addressed—Adjutant, Major C. O'D. Preston, D.S.O., R.F.A.

A. Artillery Unit.

Major and Officer Commanding—J. E. Mackenzie.

Lieutenant—E. H. Ablett.

2nd Lieutenant—W. Gordon.

Battery Sergeant-Major—

Hon. Secretary—Sgt.

Hon. Treasurer—Lieut. E. H. Ablett.

The Battery—which is armed with the 18-pr. Q.F. gun—drills in the O.T.C. Headquarters, Infirmary Street, throughout the session.

Instruction in Gunnery, Gun Drill and Mechanism, Laying, Fuze-setting, Marching and Rifle Drill, Signalling, Map Reading, Horse Mastership, Military Law, and Military Hygiene, is given.

During the summer, Rifle Shooting is practised, and several prizes, medals, and cups are offered for competition. There is a miniature rifle range at Headquarters, which is allotted to the Battery on Wednesdays.

Riding lessons are given to men in the Battery, and mounted parades are held from time to time during the session. The Battery formerly held the Championship of Scotland for three years, and twice were runners-up for the Championship of Britain, whilst in 1907, at Lydd, they secured the Championship of Britain and the King's Cup, with numerous other trophies and prizes. The Field Artillery Driving Championship is at present held by the Battery, who were runners-up in 1912 and 1913, and won it in 1914 at the Territorial Sports for Great Britain. Detailed information may be had on applying to any of the Officers, or at Headquarters.

CAMPS.

Spring Camp (which is voluntary) is held at Buddon for 6 days during the Victoria Holidays.

Annual or Summer Camp is held at Buddon for 15 days in July. At this camp the Battery is fully horsed.

B. Engineer Unit.

Captain and Officer Commanding—

The Engineer Unit was formed on 11th January 1910, for the purpose of preparing and qualifying cadets for commissions in the Royal Engineer Special Reserve and the Territorial Force.

TRAINING.

The training in the Unit is most varied and interesting, and thoroughly practical. Cadets are instructed in musketry as well as field engineering.

C. Infantry Unit.*(Formed 1859 ; Transferred to O.T.C. 1908.)**Captain and Officer Commanding—R. Gentles.**Lieutenants—R. Kerr, R. S. MacDougall.*

The Infantry Unit carries on the traditions of the old Edinburgh University Rifle Company, which was the first company of Volunteers formed in Scotland. It is organised as a double company and has numerous shooting prizes, both for match target and for field service target competitions. Company training is spread over winter and summer to suit all. Numerous field days are held, and instruction given in the following:—Foot, Rifle, and Physical Drill, Bayonet Fighting, Musketry, Tactics, Organisation and Administration, Map Reading, Military Law, Military Hygiene, Field Engineering, and Signalling. The Unit has a marching camp of its own every May, and goes for fifteen days to camp in summer. The kilt service uniform is worn. A pipe and drum band has also been organised among the cadets. University men wishing to join can get information from any of the officers. The object of the Unit is that of the Officers' Training Corps generally, viz., the supply of officers to H.M. Regular, Special Reserve, and Territorial Forces, with the further special function of replacing casualties in time of war from a supply of already trained cadets.

D. Medical Unit.

LATE EDINBURGH COMPANY ROYAL ARMY MEDICAL CORPS
VOLUNTEERS.

*(Formed 1886 ; Transferred to O.T.C. 1908.)**Officer Commanding—Major H. Littlejohn.**2nd Lieutenant—R. L. Galloway.*

This Unit, with its training, is specially adapted for the supply of Medical Officers to the R.A.M.C. Special Reserve and Territorial Force, and has always attracted a large number of medical students to its ranks. It comprises two sections of a Field Ambulance. The Unit has a 5-day camp in May every year, and an official 15-day camp in July, the latter being generally held at Aldershot. Drills are held at the Headquarters, High School Yards, twice weekly. Instruction in signalling and riding is also given. The uniform worn is New Service Dress, with riding breeches and putties. Particulars in detail of the work carried out by this Unit are contained in the *Students' Hand-Book*.

Chaplain—

* * *

No. of Commissions and Cadetships obtained since the Formation of Corps:—

Artillery Unit	845
Engineer Unit	141
Infantry Unit	900
Medical Unit (as far as is known)	550
Total	<u>2436</u>

STATISTICS OF THE RECTORIAL ELECTIONS, 1859-1917.

	Matriculated Students.
1859. Gladstone, 642; Neaves, 527	1302.
1862. Gladstone (<i>unopposed</i>)	1331.
1865. Carlyle, 657; Disraeli, 310	1288.
1868. Moncrieff, 607; Ruskin, 425	1398.
1871. Maxwell, 594; R. Palmer, 502	1533.
1874. Derby, 770; Playfair, 583	1767.
1877. Harlinton, 932; Cross, 684	2102.
1880. Rosebery, 1024; Christison, 985	2496.
1883. Northcote, Blackie, Trevelyan	2660.
1886. Iddesleigh, 1094; Playfair, 747	2680.
1887. Lothian (<i>unopposed</i>)	2493.
1890. Goschen, 1378; Russell, 805	3038.
1893. Robertson, 1145; Reay, 728	2649.
1896. Balfour, 990; Haldane, 771	2414.
1899. Dufferin, 943; Asquith, 686	2416.
1902. Finlay, 916; Grey, 621	2475.
1905. Haldane, 877; Dunedin, 847	2643.
1908. Wyndham, 826; Churchill, 727; Osler, 614	2698.
1911. Minto, 1182; Crewe, 960	2885.
1914. Kitchener (<i>unopposed</i>)	2074.
1917. Beatty (<i>unopposed</i>)	

STATISTICS OF PARLIAMENTARY ELECTIONS. 1868-1918.

1868. Voted in Edinburgh—Playfair, 1753; St Andrews, 569—total 2322. Campbell Swinton—Edinburgh, 1510; St Andrews, 557—total, 2067. Majority for Playfair, 255. No. of Voters on Register—Edinburgh, 3652; St Andrews, 1228—total, 4880.
1873. Playfair (<i>unopposed</i>).
1874. Playfair (<i>unopposed</i>).
1880. Playfair—Edinburgh, 1981; St Andrews, 541—total, 2522. Bickersteth—Edinburgh, 1638; St Andrews, 810—total, 2448. Majority for Playfair, 74. No. of Voters on Register—Edinburgh, 4386; St Andrews, 1580—total, 5966.
1885. Macdonald—Edinburgh, 2051; St Andrews, 789—total, 2840. Erichsen—Edinburgh, 1985; St Andrews, 468—total, 2453. Majority for Macdonald, 387. No. of Voters on Register—Edinburgh, 5158; St Andrews, 1507—total, 6665.
1886. Macdonald (<i>unopposed</i>).
1888. Stormonth Darling (<i>unopposed</i>).
1890 and 1892. Pearson (<i>unopposed</i>).
1896. Priestley (<i>unopposed</i>).
1900. Tuke (<i>unopposed</i>).
1906. Tuke—Edinburgh, 4212; St Andrews, 681—total for Tuke, 4893. Strachey—Edinburgh, 1967; St Andrews, 343—total for Strachey, 2310. Majority for Tuke, 2583. No. who voted in the Election, 7203. No. on Edinburgh Register, 9870; No. on St Andrew, Register, 1554—total, 11,424.

- 1910 (January). Finlay—Edinburgh, 4523; St Andrews, 682—total for Finlay, 5205. Simpson—Edinburgh, 2335; St Andrews, 358—total for Simpson, 2693. Majority for Finlay, 2512. No. who voted in the Election, 7898. No. of voters on Edinburgh Register, 8640; No. on St Andrews Register, 1702—total, 10,342.
- 1910 (December). Finlay (*unopposed*).
- 1916 (December). Johnston (*unopposed*).
- 1917 (August). Cheyne (*unopposed*).
- 1918 (December). First Election on the Proportional Representation System, with transferable vote. Cheyne, 3719; Cowan, 3499; Craik, 3286; Macdonald, 1581; Smith, 850. The first three candidates were elected on the first count.

EDINBURGH UNIVERSITY UNION.

President—J. M'Gilchrist, M.A. *Hon. Secretary*—D. L. M. Tod, M.A., B.Sc. *Assistant Secretary*—R. E. Batson. *Treasurer*—James Walker, C.A., LL.D., 25 Frederick Street. The *Committee of Management* consists of members from the *Senatus*, the *General Council*, and *Matriculated Students*.

Membership of the Union is open to all gentlemen who are (1) Matriculated Students; (2) Members of the University Court; (3) Members of the *Senatus Academicus*; (4) Members of the General Council; or (5) Graduates of the University, not being members of the General Council.

The purpose of the Union is "the provision and maintenance of means of social and academic intercourse for its members." The Buildings occupy a situation near both the New and the Old University Buildings, and with the extensions which have been erected have cost £41,000. The rooms include a large debating-hall (capable of holding 500 persons), in which debates and numerous social functions are held during the Winter Session, a spacious dining-hall, and a large library, with galleries specially adapted for study. There are also large conversation, reading-, and writing-rooms, various committee rooms, billiard room with four billiard tables, and smoking-room. The reading-rooms are amply supplied with newspapers, and with the weekly, monthly, and quarterly periodicals. The library contains University and Class Text-Books. In addition there are also two "fives" courts, photographic rooms, a thoroughly modern kitchen and service accommodation, and a well-situated conservatory and roof garden.

Terms of Membership.—Payment of an entry-money of 5s.; and an annual subscription of (1) £1, 1s. if a Matriculated Student: or (2) £2, 2s. if not a Matriculated Student.

University Societies are granted certain privileges for the transaction of business in the Union.

A system of corresponding membership exists with the University Unions of Oxford, Cambridge, Durham, Manchester, Liverpool, Glasgow, Aberdeen, St Andrews, Dundee, and Belfast.

WOMEN STUDENTS' UNION.

President—Miss E. W. M'Crae. *Vice-President*—Miss Ina Lawson, M.A. *Hon. Secretary*—Miss E. K. Chandler, M.A. *Hon. Assistant Secretary*—Miss Harris. *Hon. Treasurer*—Mrs Jehu. *Hon. Assistant Treasurer*—Miss B. Critchley. Committee of Management, consisting of twelve members.

The premises which the Union at present occupies, at the corner of Bristo and Lothian Streets, have proved inadequate for its rapidly increasing membership, and larger and more suitable quarters have been rented in George Square (Nos. 52 and 53), which will, it is hoped, be ready for occupation by October. The new Union will include a dining-hall (where dinner, tea, and light refreshments are provided at moderate charges), a drawing-room and lounge, a reading-room (well equipped with magazines and newspapers), and smaller study rooms. The Women's Medical Society Library is housed in the Union—as well as the Union Library.

All women students should make an effort to become members, as the Union has come to be regarded as an integral part of University life.

The annual subscription for ordinary members is 15s.

EDINBURGH POST-GRADUATE COURSES IN MEDICINE IN CONNECTION WITH THE UNIVERSITY AND ROYAL COLLEGES.

In order to provide for the special needs of the present time, the Executive Committee have arranged Courses which are specially designed to meet the requirements of Graduates returned from Active Service on demobilisation.

All Courses are open to Women Graduates.

Three Courses have been arranged :—

A.—A Course in Clinical Medicine.

B.—A Course in Clinical Surgery.

C.—A Course in Obstetrics, Gynecology, and Child Welfare.

Courses A and B are conducted during each of the Academic terms. They have already been held during the past Summer term (April to June 1919). These Courses will be repeated during the Autumn term (October to December), commencing 14th October 1919, and the Winter term (January to March), commencing 6th January 1920.

Course C is conducted during the Summer Vacation (August and September) only.

As the work of each Course occupies the greater part of each day, only one Course can be taken at a time.

The Instruction is given conjointly by the Professors in the Faculty of Medicine, the University Lecturers and Assistants, the Lecturers in the Extra-Mural School, and the members of the Honorary Staffs of the Hospitals.

Course A.—Clinical Medicine.

This Course includes a series of daily Lecture-Demonstrations on General Medicine, Medical Diseases of Children, Tuberculosis, Medical Ophthalmology, Neurology, Dermatology, Infectious Diseases, Mental Diseases, etc. Arrangements are made by which members of the Course may follow the general medical practice of the Royal Infirmary and Royal Hospital for Sick Children in the Wards and Out-Patient Departments. Those members of the Course who desire to concentrate their attention on a special subject may, by arrangement, be attached as Extra-Clinical Assistants in the Medical Wards of the Royal Infirmary, the Royal Hospital for Sick Children, the Royal Victoria Dispensary for Tuberculosis, the Eye Department, or the Skin Department of the Royal Infirmary.

Provision is also made for practical instruction in Applied Anatomy, Physiology, Pathology, Bacteriology; and a limited number of members of the course may, by arrangement, act as Assistant Demonstrators in Practical Classes on these subjects under the Professors and Lecturers.

Members who desire to act as Demonstrators in Practical Classes and Clinical Assistants in Special Departments are allocated to these in order of application up to the number of vacancies.

Course B.—Clinical Surgery.

This Course includes daily Lecture-Demonstrations on General Surgery, Surgical Diseases of Children, Aural, Nasal, and Laryngeal Surgery, and Venereal Diseases. Arrangements are made by which members of the Course may follow the Surgical Practice of the Royal Infirmary and the Royal Hospital for Sick Children, in the Wards and Operating Theatres, and in the Out-Patient Departments. Facilities are afforded to members of the Course who desire to concentrate their attention on a special branch of Surgery, to act as Extra-Clinical Assistants in the department selected.

Provision is also made for practical instruction on Surgical Anatomy, Pathology, and Bacteriology, and a limited number of members may, by arrangement, act as Assistant-Demonstrators in the practical classes under the Professors and Lecturers.

Members who desire to act as Demonstrators in Practical Classes and Clinical Assistants in Special Departments are allocated to these in order of application up to the number of vacancies.

Course C.—Obstetrics, Gynecology, and Child Welfare.

This Course includes Cliniques at the Royal Infirmary on Diagnosis and Treatment in Gynecology, and at the Royal Maternity Hospital on the Diseases of Pregnancy (in the Prematernity Ward), on Labours, the Puerperium, and the New-born Infant; Lecture-Demonstrations on the Morbid Anatomy of Gynecology, of Obstetrics (including the Pathology of Pregnancy and the New-born), and of Antenatal Diseases (including Teratology); Demonstrations of Operative Measures and of Instrumental Appliances in Gynecology and Obstetrics; and Clinical Instruction in Mother and Child Welfare at the various Health Centres (including clerking at the Antenatal Clinic and at Infant Centres, study of the details of the working of the Town System in its Social and Medical aspects).

Fees:—The Fee for each of the Courses, A and B, is 25 Guineas, including Hospital Tickets¹; for Course C, 20 Guineas.

Those who desire to enter for these Courses should do so as early as possible. All particulars may be had on application to the Secretary. Post-Graduate Courses in Medicine, University New Buildings, Edinburgh.

ROYAL MEDICAL SOCIETY, EDINBURGH, 7 Melbourne Pl.

Founded 1787. Royal Charter Granted 1778.

Presidents—F. E. Jardine, F.R.C.S.; R. G. Bannerman, M.B., Ch.B.; J. S. Westwater, D.Sc.; J. D. Stewart. *Secretary*—A. G. N. Weatherhead. *Assistant Secretary*—J. Davidson. *Curator of Library*—C. Stewart. *Sub-Librarian*—J. A. Ballantyne.

The Society meets in its hall every Friday evening during the Winter at 8.10 P.M. Public business commences at 9.30 P.M. At these meetings dissertations on medical subjects are read and debated, communications by members on subjects of interest discussed, and patients are shown. The Society possesses a very fine library, containing about 30,000 volumes, which is constantly being added to, and a new card catalogue has now been made and brought up to date. There are comfortable writing- and reading-rooms, which have recently been entirely refurnished, with all the medical journals, periodicals, and books of reference as well as current text-books. The museum contains a complete collection of *Materia Medica* specimens, a considerable number of recently mounted pathological specimens, and complete sets of microscopical slides of pathological conditions and normal histology, especially useful to students reading for the examinations in Pathology and Physiology respectively.

There is also a surgical model for bandaging, etc., and an obstetric one for practice in midwifery.

Students of medicine are eligible to apply for election to membership during and after their second year of study.

Communications should be addressed to the Secretaries, 7 Melbourne Place.

ASSOCIATION FOR THE BETTER ENDOWMENT OF THE UNIVERSITY OF EDINBURGH.

President—The Right Hon. Arthur James Balfour, O.M., D.C.L., LL.D., M.P., Chancellor of the University. *Vice-President*—The Right Hon. The Earl of Rosebery, K.G., P.C., K.T., LL.D.

Ordinary Members of Committee—Sir J. O. Affleck, M.D., LL.D., F.R.C.P.E.; Walter B. Laikie, Esq., LL.D.; Emeritus-Professor Crum Brown, M.D., LL.D.; Emeritus-Professor Chiene, C.B.

¹ Graduates who hold a perpetual Hospital Ticket shall receive a corresponding rebate.

F.R.C.S.E.; Sir Henry Cook, W.S.; Charles Cook, Esq., W.S.; Emeritus-Professor Sir T. R. Fraser, M.D., LL.D., F.R.C.P.E.; John Harrison, LL.D.; Sir Robert Rowand Anderson, LL.D.; The Hon. Lord Guthrie; Robert Kilpatrick, Esq.; J. L. Ewing, Esq., LL.D.; John Rutherford, Esq., W.S.; Rev. Alexander Whyte, D.D.; Principal Sir James A. Ewing, K.C.B., M.A., LL.D. *Interim Secretary*—J. J. Herdman, W.S., 6 Hill Street.

FRANCO-SCOTTISH SOCIETY.

Hon. Gen. Secretary—John Smart, W.S., 19 York Place, Edinburgh.

An Inter-Academic Society for advising and assisting French students in Scotland and Scottish students in France. It has local centres at Glasgow, Aberdeen, and Dundee, in addition to its headquarters in Edinburgh.

RESIDENCES AND BOARD FOR STUDENTS.

I. For Men Students.

(Not under the control of the University Authorities.)

UNIVERSITY HALL, which was founded in 1887, by Professor Patrick Geddes, for the benefit of Students in Edinburgh, now comprises three Houses, viz.:—

RAMSAY LODGE, 3-6 Ramsay Garden.
BLACKIE HOUSE, 8 North Bank Street.
ST GILES HOUSE, 22 St Giles Street.

The Houses are intended for the use of Students in any of the Faculties. They are well and fully furnished, and rents and expenses are reduced to as low a rate as possible, consistent with comfort and efficiency.

The rents average about 30s. per week, payable by term in advance; and the board averages about 20s. per week, payable by term in advance also. Accounts are adjusted with residents at the end of each term.

The main feature of University Hall is that the purely internal affairs of each House are conducted by the Residents themselves.

While fully recognising the benefits to be obtained at the great English Universities of Oxford and Cambridge, University Hall aims at something more than these.

That men may become self-reliant, all external interest is minimised, a knowledge of how to govern themselves and others, how to have consideration for their fellows and subordinates, is instilled by handing over the management of each House to its own Residents, while the only real objection to common residence is removed by giving to the men the right to decide by ballot who may become members of their particular House.

There have lived from time to time, in one or other of the Houses, Students and Graduates of Divinity, Law, Medicine, and Art; Professors and Extra-Mural Teachers; Explorers, Artists, Architects, and Army Officers, men of varied interests, who have found life here congenial and interesting.

The constitution of the Hall has been arranged so as to facilitate men of various professions and shades of opinion living together, so that by association one with another the culture of the Residents may be broadened.

Application for rooms should be made at the different houses. Application for information with regard to general questions on University Hall should be made to Messrs Whitson & Methuen, C.A., 21 Rutland Street, Edinburgh.

II. For Women Students.

(1) HOSTELS FOR WOMEN STUDENTS, EAST SUFFOLK ROAD, CRAIGMILLAR PARK, EDINBURGH.

Chairman of Board of Management—Sir Richard Lodge. *Principal Warden*—Miss E. T. McKnight, M.A., Moral Science Tripos.

The Hostels, at present three in number, are situated at Craigmillar Park, with an entrance from East Suffolk Road.

Each Hostel has its own common room, library and dining-room, and accommodates fifty-two students, for whom separate study-bedrooms, heated by open fires, are provided. The grounds extend to about twenty acres, and excellent facilities are afforded for tennis and hockey.

The University, the Training College, and other educational institutions for women students can be reached by tramcar in ten to twenty minutes.

Women Students eligible for Admission.—The following persons are eligible, and may apply for admission :—

- (a) Matriculated women students attending the University of Edinburgh.
- (b) Women students attending the Provincial Training College for Teachers.
- (c) Women students who are beneficiaries of the Carnegie Trust, in attendance at other educational institutions.
- (d) After the demands of the above have been satisfied, other women in attendance at educational institutions may be admitted.

For terms of residence and further particulars apply to the Principal Warden, Buchanan Hostel, East Suffolk Road, Edinburgh.

(2) MASSON HALL 31 and 32 GEORGE SQUARE. INSTITUTED 1897.

Hon. President—Sir J. Alfred Ewing, K.C.B., LL.D. *Chairman*—Miss S. E. S. Mair. *Hon. Treasurer*—Miss J. H. Wright. *Warden*—Miss Agnes M. Bell, M.A. *Hon. Secretary*—Mrs H. F. Cadell.

This Hall is situated in convenient proximity to the University and Medical Schools.

Non-resident students may become members of the Hall by a small annual subscription, and have access to the Library and to the Dining-Hall where meals are provided at moderate rates.

Terms for Board and Residence may be had on application to the Warden. A room for Students' Meetings can be provided by arrangement.

(3) MUIR HALL FOR WOMEN MEDICAL STUDENTS OF THE
UNIVERSITY, 12 GEORGE SQUARE.

President—Sir Alfred Ewing. *Hon. Treasurer*—Mrs J. P. Watson. *Hon. Sec.*—Mrs Cossar Ewart. *Warden*—Miss Robertson.

The Hall is managed by a Warden and House Committee, and is under the direction of the University Court. It contains three Common Rooms in addition to Private Rooms for Residents. The Private Rooms are arranged as Study Bedrooms, and the charge varies according to the size and outlook, from £12 to £15, 10s. for the Term, including Board. The Residents have the use of the Square Gardens, where there are Tennis Courts. For particulars apply to the Warden.

APPOINTMENTS COMMITTEE.

The University has instituted an Appointments Committee to assist and advise students and graduates in obtaining educational and other posts. Among the public services for which application may be made through the Committee are at present (1) Egypt and the Sudan Civil Service, (2) the Indian Educational Service, (3) Indian Public Works Department,¹ (4) Post Office Engineering Department,¹ (5) Agricultural Appointments under the Government of India and under the Colonial Governments.²

The Committee keeps a Register of Members of the University who desire to obtain places in the above services, or educational or other posts at home. The Committee will obtain, as far as possible, the testimony of Professors and Lecturers to whom such candidates may be personally known. They will also furnish information, if desired, to Schoolmasters and others who may desire to find suitable applicants for work. Notices of vacancies will be sent to candidates on the Register, and will be posted on the Appointments Committee Notice Board.

Candidates for the Home and Indian Civil Services who desire advice as to the course of study should apply to the Conveners of the Appointments Committee (Professor Sir Richard Lodge and Professor Berriedale Keith), or to the Official Advisers of the Faculty of Arts.

Forms of enrolment may be had on application to the Clerk to the Committee, Mr T. F. Harley, Matriculation Office.

¹ The Professor of Engineering can give detailed information regarding these posts, and also regarding vacancies in the Patent Office, and the Engineering and Architectural Department of the Admiralty.

² Detailed information may be obtained from the Professor of Agriculture.

TRAINING OF TEACHERS.

Graduates of this, or any other British University, may qualify as teachers in Elementary Schools by undergoing a year's course of training, as laid down in the Regulations of the Edinburgh Provincial Committee for the Training of Teachers. The course includes attendance on the University Class in Education and on other University courses of study.

Graduates in Arts with Honours in Classics, Mathematics, English, History, or Modern Languages may qualify as teachers of these subjects in Intermediate and Secondary Schools by undergoing the course of training prescribed by the Edinburgh Provincial Committee for the Training of Teachers. The course includes attendance on the University Class in Education and on other University courses of study.

Graduates in Pure Science (Natural or Physical) may also qualify as teachers of Science in Intermediate or Secondary Schools by undergoing a course of training similar to that indicated above.

Students desirous of following any of the above courses, with the view of qualifying as teachers, should apply to the Director of Studies, Committee for the Training of Teachers, Moray House, Edinburgh, from whom full particulars may be obtained as regards the conditions of training.

See Regulations for DEGREE AND DIPLOMA IN EDUCATION, p. 258.

ST GEORGE'S TRAINING COLLEGE.

This College, which is incorporated under one constitution with St George's School for Girls (Incorporated), offers professional training to Women Students preparing to become teachers in Intermediate and Secondary Schools, including Preparatory and Kindergarten Departments.

The course of training, which includes attendance on the Course in Education in the University of Edinburgh, is under the supervision of the Edinburgh Provincial Committee for the Training of Teachers, and is recognised by the Scotch Education Department. It is accepted as qualifying (1) Graduates with Honours, or students who have otherwise fulfilled the conditions enumerated under Article 44 of the Regulations for the Training of Teachers of 14th September 1915, as teachers of higher subjects in intermediate or secondary schools; and (2), under Article 25 of the same Regulations, Graduates with the Ordinary Degree of M.A. as teachers in primary schools or for general work in intermediate and secondary schools. Students trained at St George's Training College, who are thus qualified under Article 44 or Article 25, are eligible to come under the Teachers' Superannuation Scheme for Scotland.

The College is also recognised by the Teachers' Training Syndicate of the University of Cambridge, and prepares students for the Certificate granted by that body. A limited number of students are also prepared for work in the Kindergarten and Preparatory Departments of Secondary Schools and for the Higher Certificate of the National Froebel Union.

Various bursaries are available for students, and there is a Loan Fund. For further particulars apply to Miss Stevenson, Principal, St George's Training College, Garscube Terrace, Edinburgh.

ALBERT KAHN TRAVELLING FELLOWSHIPS.

These Fellowships, two in number, are each of the value of £660; and are open to British students, graduates of, or persons who have passed the examinations required for a Degree in, some University in the United Kingdom: women as well as men being eligible. The objects of the Foundation are set forth by the Founder in the following terms:—"The essential object of the Founder of the Fellowships is in no sense to further any special line of individual, and, above all, academical research, but to enable men of proved intellectual attainments to enjoy, during one year or more, sufficient leisure and freedom from all professional pursuits or pre-occupations to enter into personal contact with men and countries they might otherwise never have known; in a word, to issue from the world of books and their narrow sphere of habitual interests into the broader world of various civilisations, and all such human interests, struggles, and endeavours as go to the making of general civilisation."

The Secretary of the Trust is Mr Edwin Deller, LL.B., University of London, South Kensington, S.W.

UNIVERSITY SOCIETIES AND CLUBS.

Associated Societies of the University.

This Association was instituted in 1833, and is a Union of Literary and Debating Societies. It is composed at the present date of five societies:—The Dialectic, Scots Law, Diagnostic, Philomathic, and Celtic Societies. The following is the list of the office-bearers of the Association, and of the respective component societies:—

Hon. President—Lord Haldane. *Hon. Vice-Presidents*—The Senatus Academicus of the University (*ex officio*). *Hon. Secretary*—Ian M'Hardy, M.A.

(1) DIALECTIC SOCIETY OF EDINBURGH. Instituted in 1787.

Presidents—J. N. Dandie; O. L. Shearer; J. Cockburn Millar. *Secretary*—E. Bulmer. *Treasurer*—T. J. Craig. *Editor of Publications*—J. Buchanan. *Delegates to the Associated Societies' Council*—The Secretary and J. B. Sen.

The Society meets in the Associated Societies' Hall every Thursday evening during the Winter Session, at 8 o'clock, for the prosecution of Literary and Philosophical Composition, Criticism, and Debate.

(2) SCOTS LAW SOCIETY. Instituted in 1815.

Presidents—James Keith, M.A., LL.B., Advocate; Neil A. MacLean, M.A., LL.B., Advocate; John F. Robertson, Solicitor. *Secretary*—J. O. Taylor, M.A., LL.B., Advocate, 25 Dublin Street. *Assistant Secretary*—G. Murray Lawson, W.S., 13 Melville Street. *Treasurer*—T. M. Cooper, M.A., LL.B., Advocate, 28 India Street.

[Intending members should communicate with the Treasurer.]

(3) DIAGNOSTIC SOCIETY. Instituted in 1816.

Presidents—F. C. Hood, M.A. (senior); C. M. Hepburn, M.A.; T. Milne, M.A.; A. D. Macdonald. *Secretary*—J. Mill, University Union. *Treasurer*—J. B. Gregory.

This Society meets in the Associated Societies' Hall, on Tuesdays, at 8 P.M., for the purposes of debate and essay reading. It is open to all male matriculated students of the University. The Society's activities, which have been in suspense during the last four years, are now being resumed. Any information as to rules, etc., may be had from the Secretary. Students of all Faculties are cordially invited to become members.

(4) PHILOMATHIC SOCIETY. Instituted in 1858.

Presidents—W. S. Morrison, M.C.; A. C. Kennedy; F. D. Hislop. *Secretary*—J. R. Martin, M.A. *Treasurer*—A. Scott, LL.B. *Assistant Secretary*—J. A. Scott, University Union.

This Society meets in the Associated Societies' Hall every Friday evening during the Winter Session, at 8 P.M., for the purposes of debate and essay reading; and is open to all gentlemen who are, or have been, Matriculated Students of the University. Subscription, 5s. All communications should be addressed to the Hon. Secretary, J. R. Martin, M.A., The University Union.

(5) CELTIC SOCIETY. Instituted in 1848.

Hon. President—Prof. W. J. Watson, LL.D. *Presidents*—D. Cameron (senior); J. M. Henderson; Wm. Anderson. *Secretaries*—A. M. MacLachlainn; Donald MacDonald. *Treasurer*—K. M. McCracken.

This Society meets every Saturday evening during the Winter Session, at 7 o'clock P.M. The Literary business of two of these meetings is conducted in Gaelic, that of the rest in English. Students from the Highland Counties, and students with Celtic sympathies or connections, are specially invited. The Annual Subscription is 3s. 6d. The Society's full recovery from the effects of the war was shown by the success of its 1919 (Spring) Session. Further information may be had from either of the Secretaries, Edinburgh University Union, Park Place.

• **AGRICULTURAL SOCIETY. Established 1858.**

Hon. President— * * * *President*—Miss M. S. F. Buchan.
Secretary—E. A. Watson. *Hon. Assist. Secretary*—Miss W. S. Cran.
Treasurer—Miss J. E. B. Blair. *S.R.C. Representative*—R. Meikle.

The Society has for its object the diffusion of knowledge among its members by the reading of papers, and by discussions bearing on the Science and Practice of Agriculture.

The Society meets weekly on Tuesday Evening, during Autumn and Spring Terms.

ATHLETIC CLUB.

Hon. President—Sir A. Ewing, Principal. *Hon. Vice-Presidents*—Professors Harvey Littlejohn, Lorrain Smith, Drs Haultain, Chalmers Watson, Mr Dowden. *Chairman of Field Committee*—Sir J. M. Cotterill, F.R.S.E. *President*—L. G. Thomas. *Vice-President*—R. E. Batson. *Hon. Secretary*—J. G. Lyon Brown. *Hon. Assistant Secretary*—T. E. Hastings. *Hon. Treasurer*—J. A. Cameron, W.S., 5 Hill Street, and University Union.

Open to all Members and Graduates of the University, and to Members of the Extra-Mural School.

All communications should be addressed to the Hon. Secretary, E. U. Athletic Club, University Union, or to the Treasurer.

Sports Field at Craiglockhart. Telephone No. 3370.

BORDERERS' ASSOCIATION. Instituted 1911.

Hon. Presidents—Sir George Douglas, Bart. ; Emer.-Prof. Pringle Pattison. *Presidents*—J. H. S. Burleigh, M.A. (senior) ; Miss D. E. Kennedy ; W. Redpath. *Secretary*—John Morrison. *Treasurer*—D. Middlemass. *Assistant Secretary*—Miss M. E. Bain.

The Society meets for debates and discussions every alternate Friday, at 8 P.M., in the Non-Associated Societies' Room, during the Autumn and Spring Terms. Its object is to promote social intercourse among Border Students. Annual subscription, 2s. 6d.

CAITHNESS STUDENTS' ASSOCIATION. Instituted in 1856.

Hon. Presidents—His Grace the Duke of Portland ; Rt. Hon. Robert Munro, K.C., M.P. ; Sir Archibald Sinclair. *Hon. Vice-Presidents*—Sir L. Harmsworth ; Mr Sutherland ; Prof. Stewart ; Mr Tait ; Prof. Iverach S. Mackay ; General Horne. *Presidents*—John Mowat (senior) ; David Jack (junior). *Secretary*—Miss Rachel A. Ross. *Assistant Secretary*—James Stewart. *Treasurer*—Miss Georgie Cormack.

This Association was formed in 1856 by a group of Caithness students in Edinburgh, with three recorded objects :—

1. To watch over and take an interest in the progress of education in Caithness,

2. To take an interest in all Caithness students coming to Edinburgh for pursuing their education.

3. To encourage the advancement of scientific pursuits and social progress in its native county.

The main life of the Association centres of necessity around Caithness students in Edinburgh. These will be found by whosoever will in the Non-Associated Societies' Hall, The University, every alternate *Saturday* evening, from 7 o'clock onwards, engaging in tea or conversation, or holding lecture or debate. Walks, social evenings, and dances are also arranged for. Membership of the Association is open to all Caithness students in Edinburgh, and also to such students as have some connection with, or practical interest in, Caithness. The Annual Subscription is 2s.

CANADIAN CLUB.

Hon. President—Professor James Seth. *President*—Major J. H. Wallis.
Vice-President—Capt. W. A. Carruthers, D.F.C. *Secretary*—Lieut. J. S. Henry.

The aim of the Club is to provide a social centre for Canadian students, and professors and students interested in Canada, and also to serve as a connecting link between the University of Edinburgh and Canadian Universities. Membership is open to all Canadian students, and to all members of the University interested in Canada.

CHEMICAL SOCIETY. Instituted 1874.

Hon. Presidents—Emeritus-Professor Crum Brown, F.R.S.; Professor Walker, F.R.S. *President*—Miss M. R. Mackenzie. *Vice-Presidents*—R. K. S. Mitchell; Miss E. M. Younie. *Secretary*—G. V. Thom.
Treasurer—Miss V. M. Jarvis.

The Society holds fortnightly meetings during the Session at 7 P.M., in the Chemistry Tutorial Class-Room, New Buildings, for the reading and discussion of papers on Chemistry and the allied Sciences, and the meetings are open to all interested. Frequent excursions are made to Chemical Works, etc., during the Session. An extensive lending and reference Library, containing most of the latest chemical works, is available for the use of members.

CHRISTIAN UNION.

Hon. President—Prof. C. G. Barkla, F.R.S. *President*—R. M. Galloway.
Vice-President—A. C. Kennedy, M.A. *Secretary*—J. H. Fairweather.
Treasurer—H. R. Potter.
Rooms—54 George Square.

The object is to form a bond of union among students, whose principles and aims in life are Christian, and to help in furthering practical ideals of Christian service.

At present the social work is confined to the Ward Services, parties of students visiting the Infirmary and Poorhouses, and conducting services there. Arrangements will be made for services for men students in the winter term.

Study Circles are held, where members discuss together informally matters of interest in Bible, Social and Missionary Study. Meetings for prayer are held regularly, and social meetings are held at intervals.

The E.U.C.U. forms a unit in the World's Student Christian Federation, which binds together in one body Christian Unions in nearly every University and College in the world.

CHURCH OF SCOTLAND SOCIETY.

Hon. Presidents—The Right Rev. the Moderator; The Very Rev. A. Wallace Williamson, D.D., C.V.O., Dean of the Thistle; The Rev. Lauchlan Maclean Watt, B.D.; The Rev. Professor Kennedy. *President*—J. H. S. Buffleigh, Esq., M.A. *Vice-Presidents*—R. M. Edie, Esq., M.A.; R. Snedden. *Secretary*—Miss Helene J. B. T. Penman, M.A. *Treasurer and Assistant Secretary*—Miss Mary H. M. Gordon.

All matriculated students interested in the Auld Kirk are eligible for admission to the Society, which exists to discuss matters of general interest, and to promote social intercourse. Meetings are held in the Theological Library on alternate Fridays throughout the Session, at 7.30 P.M. Subscription, 2s. 6d.

CLASSICAL SOCIETY. Founded 1898.

Hon. Presidents—The Professors of Latin and Greek. *Presidents*—A. F. Giles, M.A., B.A.; J. Farquhar. *Secretary*—J. W. Fergusson. *Treasurer*—Miss A. G. Armit.

The object of the Society is to further Classical study, and to promote social intercourse amongst Classical students in the University of Edinburgh. The Society meets for essays, debates, and discussions every second Wednesday evening, at 7.30 o'clock, in the Sellar and Goodhart Library. Membership is open to past and present Classical students of the University of Edinburgh.

DRAMATIC SOCIETY. Instituted 1917.

Hon. Presidents—Miss Irene Vanbrugh; George Robey; Prof. H. J. C. Grierson; Prof. J. Lorrain Smith. *President*—Miss A. Swan. *Secretary*—C. Robertson Wilson, University Union.

It is the object of this Society to encourage interest in the Drama and in the Dramatic Art. Intending members should communicate with the Secretary, who will gladly give further particulars. Subscription—Full Year, 2s. 6d.; Summer Session, 1s.

DUMFRIESSHIRE AND GALLOWAY LITERARY SOCIETY. Instituted 1847.

Presidents—R. N. Robertson (senior); John T. Wilson; J. Halliday.
Joint Secretaries—R. M. Burnie, M.B., Ch.B., University Union; and
 J. K. Murray, University Union. *Treasurer*—A. R. M'Clure, 15
 Viewforth.

This Society is open to all students who are connected with Dumfriesshire or Galloway, or to such other persons connected with Dumfriesshire or Galloway, as may be admitted by unanimous consent at an ordinary meeting of the Society. The Society meets in the Public Law Class-Room of the University every Saturday during the Autumn and Spring Terms, at 7 P.M. Annual subscription, 2s. 6d.

Several social functions are held under the auspices of the Society. All students from Dumfriesshire and Galloway are urged to support the Society and to communicate with either of the Secretaries.

ECONOMIC SOCIETY.

President—Prof. Nicholson, M.A., D.Sc. *Vice-President*—Sir Richard Lodge, M.A., LL.D. *Secretary*—Wm. Mitchell, M.A., University Union.

This Society meets every Monday evening at 8 o'clock in the History Library for the purpose of furthering interest in economic questions. The first meeting will be held on the first Monday after the opening of Session 1919-20.

EDUCATION SOCIETY. Instituted 1904.

Hon. President—Professor Darroch. *Hon. Vice-Presidents*—Dr Gunn; Dr Morgan; James Drever, M.A., B.Sc., D.Phil. *Secretary*—Jessie A. Mullo Weir, M.A., 27 Pilrig Street.

This Society meets fortnightly during the Session, on Wednesday, at 4.30 P.M., in the Non-Associated Societies' Room, for the purpose of discussing psychological and educational problems and for the furtherance of interest in psychology and education. The first meeting in Session 1919-20 will be held on the second Wednesday of the Session.

ENGINEERING SOCIETY. Instituted 1901.

Hon. Presidents—Professor Hudson Beare and Professor Stanfield.
President—D. Menzies Fraser, M.C., B.Sc. *Vice-President*—E. L. L. Turnbull. *Secretary*—W. Galloway Black. *Treasurer*—P. H. Henry.
Librarian—T. S. Curr. *S.R.C. Representative*—C. N. Spencer.

The Society is open to all past and present Engineering students of the University, and to day students of the Heriot-Watt College. The Society meets on Friday evenings in the Engineering Lecture Theatre in the University, when papers of engineering interest are read and discussed. Visits are also paid to engineering works in the neighbourhood, and also

in the Glasgow district. There is a reading-room provided, with the leading engineering periodicals for the use of members. Annual subscription, 2s. 6d.; life membership, 15s.; entry money, 2s. 6d. (Five annual subscriptions constitute life membership.)

ENGLISH LITERATURE SOCIETY. Instituted 1911.

Hon. Presidents—Professor Saintsbury; A. Blyth Webster, Esq., M.A.; Rev. John Kelman, D.D.; Miss Rosaline Masson; Professor Grierson. *Presidents*—Miss Stuart; Miss Aitken; Miss Fairbairn. *Secretary*—Miss Grierson, Women Students' Reading Room. *Assist. Secretary*—Miss Fyfe. *Treasurer*—Miss Caulder. *S.R.C. Representative*—Miss M'Alister.

The Society exists for the intellectual entertainment of students in all Faculties, and especially for members of the English Class, interested in literature. The dramatic performance, which has been suspended for the last four years, will be given this Session. In addition to lectures, debates, and discussions, the Society will indulge in dances, walks, and theatre-nights, etc. etc. The Society will meet at 5 P.M. in Greek Class Room. Annual subscription, 2s. 6d.; Summer term only, 1s.

FORENSIC CLUB.

Office-bearers for 1914-15,—

Hon. President—W. J. Lewis, Esq., S.S.C., Lecturer on Procedure and Evidence in the University of Edinburgh. *President*—Robert Archibald, LL.B. *Vice-Presidents*—James Sinclair; William Begg. *Hon. Secretary*—George Smith, 21 St Andrew Square, Edinburgh. *Hon. Assistant Secretary*—James Wilson. *Hon. Treasurer*—F. C. Gibb, 30 Inverleith Terrace, Edinburgh.

Note.—On account of the absence of the majority of the members on military and other duty, the Club did not meet in sessions 1914-15, 1915-16, 1916-17, 1917-18; and no office-bearers have been appointed for 1918-19.

This Club is confined to gentlemen of the legal profession, who are or have been matriculated students of a Scottish University. The Club meets fortnightly, on evenings arranged at its annual meeting in October (but generally Thursdays). The subscription is 2s. 6d.

The Syllabus includes an address by an eminent member of the profession, a jury trial, a hearing before a bench, debates on cases and questions both legal and speculative, and papers on some practical subject. Opportunities are also given at its meetings for the discussion of difficult questions arising in daily practice, submitted by members.

FRENCH SOCIETY.

Hon. President—Professor Sarolea. *Hon. Vice-Presidents*—Emeritus-Professor Kirkpatrick; Emeritus-Professor Saintsbury; Dr Schlapp; Professor Graeme Ritchie; H. F. Eggeling, M.A.; Miss Janie

Milne, M.A. *President*—Miss K. S. Hayes. *Vice-President*—Miss D. C. Forsyth. *Secretary*—Miss I. M. G. Smith. *Treasurer*—Miss J. B. Campbell.

The French Society was formed as a means of friendly intercourse among students of all stages in the study of French. Meetings, preceded by tea, are held fortnightly during the autumn and spring terms, on Wednesdays, at 5 P.M., in the Gibson Library. The syllabus includes papers and debates on French literary and topical subjects. During the Session walks are arranged to various places of interest round about Edinburgh. Membership is open to past and present students of the University, and to non-students who are interested in French. Annual subscription, 2s. 6d.

GERMAN SOCIETY. Instituted 1899.

Hon. President—Dr Otto Schlapp. *Hon. Vice-Presidents*—Emeritus-Professors Kirkpatrick, Niecks, Pringle, Patison, and Patrick; Professors Darroch, Paterson, Sampson, Sarolea, and Ritchie; Mrs Christie Crawford, Dr Scholle, Dr Lees, Mr Eggeling, Miss M. D. Howie. *President*—J. E. G. Burgoyne. *Vice-President*—Miss E. D. Walker. *Secretary*—Miss L. M. Cook. *Assistant Secretary*—Miss E. Wilkie. *Treasurer*—Miss A. Guild.

This Society was founded in 1899 to unite in social intercourse the students of German in the University, and to promote the study of the language, literature, and thought of Germany. Meetings of the Society, preceded by tea, are held fortnightly during the autumn and winter Sessions in the Gibson Library, on Wednesdays, at 5 o'clock. The syllabus includes papers and debates on subjects of present interest, dramatic and musical recitals, and meetings of a more purely social character. Throughout the three terms, walks, picnics, excursions, and impromptu social gatherings are arranged.

HISTORICAL SOCIETY. Instituted 1897.

Hon. Presidents—Prof. Sir Richard Lodge; Prof. Hannay; D. P. Heatley, Esq.; Prof. Mackinnon; Prof. J. H. Millar; Prof. G. Baldwin Brown; G. G. Chisholm, Esq., M.A., B.Sc. *Hon. Vice-Presidents*—J. F. Rees, Esq., M.A.; James Munro, Esq., M.A.; A. F. Giles, Esq., M.A.; H. W. Meikle, Esq., M.A., D.Litt.; J. Ewing, Esq., M.A.; E. W. M. Balfour-Melville, Esq., M.A. *Presidents*—J. W. Oliver (senior); Miss N. C. MacDougall; R. P. Morison. *Secretary*—R. Snedden. *Assist. Secretary*—Miss J. A. MacTaggart. *Treasurer*—Miss E. A. Gibson. *S.R.C. Representative*—J. N. Dandie. *Additional Members of Committee*—J. C. Millar; J. Buchanan.

This Society meets throughout the three terms in the History Library, on Wednesdays, at 8 P.M., for the purpose of historical study and research, of debating problems chiefly in mediæval and modern history, and of investigating the trend of modern politics. As far as possible the order of the discussions runs continuously with the work that is being done by the History Classes. Subscription, 2s. 6d.

• **INDIAN (EDINBURGH) ASSOCIATION.** Instituted 1888.

President—C. S. G. Pillai. *Vice-President*—R. M. Johri. *Hon. Secretary*—Ikbal Ali Shah, M.R.A.S. *Hon. Assistant Secretary*—B. R. V. Swamy. *Hon. Treasurer*—S. W. Hardikar. *Representative to S.R.C.*—J. B. Sen.

The premises are situated at 11 George Square, and contain a debating-hall, a reading-room with many of the Indian and British newspapers and periodicals, a smoking-and-conversation-room, reading-and-writing-rooms, a billiard-room, and a guest-room.

The objects of the Association are—

- (1) To promote and make provision for social intercourse among Indians resident in Great Britain and Ireland.
- (2) To afford them every assistance.
- (3) To hold academic debates, and read and criticise essays.

All Indians (ladies included) resident in Great Britain and Ireland are eligible for membership.

The annual subscription is 10s. 6d.; entry fee 5s. Fortnightly meetings are held throughout the Winter and Summer Terms.

JEWISH SOCIETY.

Hon. President—Rabbi Dr S. Daiches. *President*—E. J. Swirsky. *Secretary*—Miss D. Morrison, B.A. *Treasurer*—H. Cohen.

The aim of this Society is to bring the Jewish students of this University into closer contact with each other, and to foster social and intellectual intercourse among them. To this end, meetings are held fortnightly on Saturday evenings, when subjects of international as well as national interest are discussed, and members are given an opportunity for the free and unfettered expression of their views.

MISSIONARY ASSOCIATION. Instituted 1825.

Interim Office-Bearers.

Hon. Presidents—The Professors of the Faculty of Divinity, and the Rev. R. H. Fisher, D.D. *President*—G. W. K. Macpherson, M.A. *Vice-President*—Stephen Green, M.A. *Hon. Treasurer*—W. Melvill Sym, Esq., C.A., 49 Castle Street. *Assistant Treasurer*—W. G. Mitchell, M.A. *Secretary*—John H. S. Burleigh, M.A. *Assistant Secretary*—Wm. Addison, M.A.

All matriculated students are eligible for membership, and those who are, or intend to become, students of Divinity in this University are earnestly invited to join. The work has been in abeyance during the war, and when it is resumed, there will be need both of ideas and energy from all who can contribute them.

The Association meets in the Theological Library on alternate Tuesdays, at 2.30 P.M. Annual Subscription, 2s. 6d.

MUSICAL SOCIETY. Founded 1866-67.

Patron—The Rector.

Hon. President—Professor Tovey. *Hon. Vice-Presidents*—Professors Sir Ludovic J. Grant, Bart., Sir Richard Lodge, Sir E. Sharpey Schafer, Walker, Hepburn, Caird, Mackinnon, Hudson Beare, Whittaker, Barkla, and Ashworth; Emeritus-Professors Crum Brown, Kirkpatrick, and Pringle Pattison; Dr Schlapp; Dr Knott; Dr Kirkhope; and R. M'Ewan, Esq. *President*—P. U. Pritchard. *Hon. Secretary*—Miss A. P. Pryde, Women Students' Reading Room. *Hon. Assistant Secretary and Librarian*—Miss A. S. Milroy, Balfour Hostel. *Hon. Treasurer*—Miss B. MacDonald, 76 Thirlestane Road. *Conductor*—Miss Grierson, Mus.Bac. *Accompanist*—Miss Dowie.

The Society meets for practice weekly during the Autumn and Spring Terms on Tuesdays at 5.20 P.M., in the Reid Music Class-Room, Park Place. Subscription, 2s. 6d. Annual Concert in March.

OFFICERS' TRAINING CORPS. See page 384.

ORCADIAN ASSOCIATION.

Hon. President—James Drever, M.A., B.Sc., D.Phil. *President*—Claude B. Brownlie. *Vice-President*—Miss O. Clouston. *Secretary*—Miss M. H. Smith, 14 Argyle Place. *Assistant Secretary*—John H. Scott. *Treasurer*—David Drever. *S.R.C. Representative*—Chas. Taylor.

This Association was instituted in 1901 for the purpose of bringing together students connected with Orkney; and in 1912 its membership was extended to those connected with Shetland, in order that intercourse might be promoted amongst students from both sections of the county. It engages in debates upon literary, scientific, and general subjects.

The Association, which was in abeyance during the War, was revived in the Spring Term of 1919, and meets in the Celtic Class-Room, at 6.30 P.M., on alternate Saturdays, during the Autumn and Spring Terms. The annual subscription is 2s. 6d.

PERTH ACADEMY SOCIETY. Instituted 1914.

(At present in abeyance.)

PHILOSOPHICAL SOCIETY. Instituted 1871.

This Society meets on Tuesday evenings, at 8.15, during the Autumn and Spring Terms, for Philosophical Discussion. For information apply to Secretary, c/o R. P. Hardie, M.A., 13 Palmerston Road.

PHYSIOLOGICAL SOCIETY. Instituted 1904.

President—Professor Sir Edward Sharpey Schafer. *Vice-Presidents*—Professor John Tait; Dr W. W. Taylor; Miss L. M. Ligertwood; R. P. Liston. *Hon. Secretary*—R. K. S. Lim. *Hon. Treasurer*—Miss D. D. Charlton. *S.R.C. Representative*—D. C. Wilson.

This Society meets at least once a month during each Term. The meetings are held on Wednesdays at 8 P.M. in the Hughes Bennett Classroom, when demonstrations and papers are given. The Society is open to all students interested. Annual Subscription, 1s. This should be paid to the Hon. Treasurer at the Physiology Department.

RUSSIAN SOCIETY.

The object of the Society is to promote social relations among students from Russia. (At present in abeyance.)

STUDENT VOLUNTEER MISSIONARY UNION

(Edinburgh Men's Branch).

President—C. L. Lautré Murray. *Secretary*—John H. Wylie, 56 George Square. *Rooms*—54 George Square.

This Union is a branch of the Student Christian Movement, and is therefore intimately associated with Christian Union. Its aims are (1) to promote a feeling of fellowship amongst students who intend to go abroad as foreign missionaries, and (2) to arouse and deepen missionary interest in the University and Colleges especially, and in the Church generally.

Meetings for fellowship, prayer, and mission study are held once a week; and each month a missionary is invited to meet the members at tea, and to discuss his sphere of work. Mission interest is aroused and deepened by working in various church organisations. Membership is open to all intending missionaries, and a hearty invitation is extended to all interested in mission work. All meetings are held in the Christian Union Rooms. Any further information can be obtained from the Secretary.

SUMMER DEBATING SOCIETY. Instituted 1903.

Presidents—R. M. Gorrie; Miss B. M. Butters; * * *
Secretary—J. Mill. *Treasurer*—Miss Stothard. *S.R.C. Representative*—D. E. Calver.

The Society meets every Wednesday evening during the Summer Session, at 7.30 o'clock, in the Non-Associated Societies' Hall, for the purpose of holding debates and other functions. The membership is open to all who have matriculated at Edinburgh University.

THEOLOGICAL SOCIETY. Instituted 1776.

Hon. Presidents—Right Reverend the Moderator; Rev. Professor Kennedy, D.D.; Rev. Professor Mackinnon, D.D.; Rev. Professor Curtis, D.D.
Presidents—Leslie Duncan, M.A. (senior); S. Green, M.A.; James Millar, M.A.; J. H. S. Burleigh, M.A. *Secretary*—J. C. Mackinnon, M.A. *Treasurer*—C. M. Hepburn, M.A.

Membership is open to present and to past students of Theology at this University. The Society meets in the Theological Library, on Thursday evenings, during the Winter Session, at 8 P.M., for essays, debates, and discussions on subjects of Theological, Ecclesiastical, and general interest.

**UNITED FREE CHURCH (Edin. Univ.) SOCIETY.
Formed 1900.**

Hon. President—Rev. R. W. Drummond, D.D. *Senior President*—James K. Grant. *Junior Presidents*—T. M. Linkie, M.A.; J. W. Drummond. *Hon. Secretary*—Miss H. G. Livingstone, Helenslee, Liberton. *Assistant Secretary*—Miss M. Guthrie. *Treasurer*—D. Mackenzie. *S.R.C. Representative*—Mr Strachan.

This Society meets on Saturday evenings in the Hebrew Class-Room, New College, at 7 P.M.

Membership is open to all past or present students of the University, or of any Extra-mural College or School recognised by the University; provided such students are members or adherents of the United Free Church. Annual subscription, 2s. 6d.

For further particulars, see *Students' Handbook*.

WOMEN'S CHRISTIAN UNION. Office—83 Marshall Street.

Hon. President—Mrs Knott. *President*—Miss O. W. Scarlett. *Vice-Presidents*—Miss Hewat; Miss MacIver. *Secretary*—Miss Turner. *Treasurer*—Miss N. Loudon.

The aim of this Union is to unite women students in Christian fellowship, and its basis is that of the Student Christian Movement. Meetings are held for Bible, Social, and Missionary study, and assistance given in Social Service Work. General Meetings are held in the Non-Associated Societies' Hall on Thursdays. Membership is open to all matriculated women students of Edinburgh University, past and present, who desire to promote these aims.

WOMEN'S DEBATING SOCIETY. Instituted 1898.

Presidents—Miss Hilda M. A. Knott (senior); Miss Moeve Biercton; Miss Margaret McDowall. *Secretary*—Miss J. Hamilton Neil. Women Students' Reading-room. *Treasurer*—Miss Alison Foster.

The Society meets every Friday in the Non-Associated Societies' Hall, at 5 P.M., for debate and literary criticism. The membership is open to all women who have matriculated in Edinburgh University.

WOMEN'S PHYSICAL SOCIETY.

Hon. President—Professor Barkla, F.R.S. *Hon. Vice-Presidents*—Dr Knott;
Dr Carse. *President*—Miss E. M. Pyper, M.A. *Vice-Presidents*—
Miss R. Pyper, M.A., B.Sc.; Miss M. Mackenzie, B.Sc. *Secretary*—
Miss F. Falconer. *Treasurer*—Miss A. S. P. Gilmour.

This Society is open to all University Women interested in Natural Philosophy. Its aim is to promote interest in Natural Philosophy and Allied Subjects. Meetings are held on alternate Wednesday afternoons throughout the session, in the Natural Philosophy Class Room. Annual subscription, 2s. 6d.

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